



TABLE OF CONTENTS :

	PAGE
GLASS PASSIVATED RECTIFIERS :	
1N4001-7GP (50V-1000V) 1.0A / Case : DO-41	1
GP151-7GP (50V-1000V) 1.5A / Case : DO-15	1
1N5391-9GP (50V-1000V) 1.5A / Case : DO-15	1
GP201-7GP (500V-1000V) 2.0A / Case : DO-15	1
1N5400-8GP (50V-1000V) 3.0A / Case : DO-201AD	1
GP600A-M (50V-1000V) 6.0A/ Cassec: P-6	2
SILICON RECTIFIERS :	
R1A1-7 (50V-1000V) 1.0A / Case : R-1	3
1N4001-7 (50V-1000V) 1.0A / Case : DO-41	3
BYW27-50-1000 (50V-1000V) 1.0A / Case : DO-15	3
EM513 & BY127M & BY133 (1000V-1300V) : 1.0A / Case : 41	3
1N5391-9 (50V-1000V) 1.5A / Case : DO-15	3
RL201-7 (50V-1000V) 2.0A / Case : DO-15	4
BY251-7 (50V-1000V) 2.5A / Case : R-3	4
RL251-5 (200V-1000V) 3.0A / Case : DO-201AD	4
1N5400-8 (50V-1000V) 3.0A / Case : DO-201AD	4
1N4001S-7S (50V-1000V) 1.0A / Case : A405	4
BY550-50-800 (50V-800V) 5.0A / Case : DO-201AD	5
BY227 (1200V-1500V) 5.0A / Case : R-3	5
BY228 (1200V-1500V) 1.75A / Case : R-3	5
P600A-M (50V-1000V) 6.0A / Case : P-6	5
FAST RECOVERY GLASS PASSIVATED RECTIFIERS	
FR101-7G (50V-1000V) 1.0A / Case : DO-41	6
1N4933-7GP (50V-600V) 1.0A / Case : DO-41, DO-15	6
1N4942-8GP (200V-600V) 1.0A / Case : DO-41, DO-15	6
FR151-7G (50V-1000V) 1.0A / Case : DO-15	6
FR201-7G (50V-1000V) 2.0A / Case : DO-15	6
FR301-7G (50V-1000V) 3.0A / Case : DO-201AD	6
FR601-7G (50V-1000V) 6.0A / Case : P-6	7
FAST RECOVERY RECTIFIERS	
FR101-7 (50V-1000V) 1.0A / Case : DO-41	
IP643-8 (50V-500V) 1.0A / Case : DO-15	8



1N4933-7 (50V-600V) 1.0A / Case : DO-41,DO-15	8
1N4942-8 (200V-1000V) 1.0A / Case :DO-41,DO-15	8
FR151-7 (50V-1000V) 1.5A /Case : DO-15	8
BA157-9 (400V-1000V) 1.0A / Case : DO-41,DO-15	9
BY296-9 (100V-800V) 2.0A / Caase: DO-201AD	9
FR251-7 (50V-1000V) 2.5A /Case: R-3	9
FR301-7 (50V-1000V) 3.0A / Case: DO-201AD	9
BY396-9(100V-800V) 3.0A /Case:DO-201AD	9
1N5185-9 (50V-600V) 3.0A/ Case: DO-201AD	10
MR850-6 (50V-600V) 3.0A/ Case:DO-201AD	10
MR820-6 (50V-600V) 5.0A /Case: P-6	10
FR601-7 (50V-1000V) 6.0A /Case:P-6	10
FR16005-10 (50V-1000V) 16 AMP / Case : TO-220AB/AC	10
FRF16005-10 (50V-1000V) 16 AMP / Case : ITO-220AB/AC	10

SUPER FAST RECOVERY RECTIFIERS

SF11-6(50V-400V) 1.0A /Case: DO-41	11
SF21-6(50V-400V) 1.5A/ Case:DO-15	11
SF31-6 (50V-400V) 3.0A/ Case:DO-201AD	11
SF61-6(50V-400V) 6.0A/ Case :DO-201AD	11
SF5005-6 (50V-600V) 5.0A/ Case : TO220AB/AC	12
SFF5005-6 (50V-600V) 5.0A/ Case : ITO220AB/AC	12
SF8005-6 (50V-600V) 8.0A/ Case : TO220AB/AC	12
SFF8005-6 (50V-600V) 8.0A/ Case : ITO220AB/AC	12
SF10005-6 (50V-600V) 10.0A/ Case : TO220AB/AC	12
SFF10005-6 (50V-600V) 10.0A/ Case : ITO220AB/AC	12
SF16005-6 (50V-600V) 16.0A/ Case : TO220AB/AC	13
SFF16005-6 (50V-600V) 16.0A/ Case : ITO220AB/AC	13
SF20005-6 (50V-600V) 20.0A/ Case : TO220AB/AC	13
SFF20005-6 (50V-600V) 20.0A/ Case : ITO220AB/AC	13
SF30005-6PT (50V-600) 30A / Case : TO-247AD (TO-3P)	13

HIGH EFFICIENCY & ULTRA FAST RECTIFIERS

HER101-7 (50V-800V) 1.0A/ Case:DO-41	14
HER151-7 (50V-800V) 1.5A/ Case:DO-15	14
HER301-7 (50V-800V) 3.0A/ Case:DO-201AD	14
HER501-8 (50V-1000V) 5.0A / Case : DO-201AD	15
HER601-7 (50V-800V) 6.0A/ Case: P-6	14
MUR410-10 (100V-1000V) 4.0A / Case : DO-201AD	15
UF8005-8 (50V-800V) 8.0A/ Case : TO220AB/AC	15



UFF8005-8 (50V-800V) 8.0A/ Case : ITO220AB/AC	15
UF10005-8 (50V-800V) 10.0A/ Case : TO220AB/AC	15
UFF10005-8 (50V-800V) 10.0A/ Case : ITO220AB/AC	15

SOFT RECOVERY / FAST SWITCHING RECTIFIERS

SFR101-6 (50V-800V) 1.0A/ Case: DO-41	16
SFR301-6 (50V-800V) 3.0A/ Case: DO-201AD	16
SFR600A-M (50V-800V) 6.0A/ Case: P-6	16

SCHOTTKY BARRIER RECTIFIERS

1N5817-9 (20V-40V) 1.0A / Case: DO-41	17
SR102-9 (20V-90V) 1.0A / Case: DO-41	17
1N5820-2 (20V-40V) 3.0A / Case: DO-201AD	17
SR302-9 (20V-90V) 3.0A / Case: DO-201AD	17
SR502-9 (20V-90V) 5.0A / Case: DO-201AD	17
SR820-60 (20V-60V) 8.0A/ Case: TO-220AB/AC & ITO-220AB/AC	17
SR1020-100 (20V-100V) 10.0A/ Case: TO-220AB/AC	18
SRF1020-100 (20V-100V) 10.0A/ Case: ITO-220AB/AC	18
SR10H20-H100 (20V-100V) 10.0A/ Case: TO-220AB/AC	18
SRF10H20-H100 (20V-100V) 10.0A/ Case: ITO-220AB/AC	18
SR720-60 (20V-60V) 7.5A/ Case: TO-220AB/AC	19
SRF720-60 (20V-60V) 7.5A/ Case: ITO-220AB/AC	19
SR7H20-H60 (20V-60V) 7.5A/ Case: TO-220AB/AC	19
SRF7H20-H60 (20V-60V) 7.5A/ Case: ITO-220AB/AC	19
SRL10L25-L30 (25V-30V) 10.0A/ Case: TO-220AB/AC	19
SRLF10L25-L30 (25V-30V) 10.0A/ Case: ITO-220AB/AC	19
SRL1020-40 (20V-40V) 10.0A/ Case: TO-220AB/AC	19
SRLF1020-40 (20V-40V) 10.0A/ Case: ITO-220AB/AC	19
SR1620-60 (20V-60V) 16.0A/ Case: TO-220AB/AC	20
SRF1620-60 (20V-60V) 16.0A/ Case: ITO-220AB/AC	20
SR16H20-H60 (20V-60V) 16.0A/ Case: TO-220AB/AC	20
SRF16H20-H60 (20V-60V) 16.0A/ Case: ITO-220AB/AC	20
SRL20L15 (15V) 20.0A/ Case: TO-220AB/AC	20
SRLF20L15 (15V) 20.0A/ Case: ITO-220AB/AC	20
SRL1020-40 (20V-40V) 10.0A/ Case: TO-220AB/AC	20
SRLF1020-40 (20V-40V) 10.0A/ Case: ITO-220AB/AC	20
SRL2020-40 (20V-40V) 20.0A/ Case: TO-220AB/AC	21
SRLF2020-40 (20V-40V) 20.0A/ Case: ITO-220AB/AC	21
SR2020-60 (20V-60V) 20.0A/ Case: TO-220AB/AC	21
SRF2020-60 (20V-+0V) 20.0A/ Case: ITO-220AB/AC	21



SR2090-100 (90V-100V) 20.0A/ Case: TO-220AB/AC	21
SRF2090-100 (90V-100V) 20.0A/ Case: ITO-220AB/AC	21
SR20H20-H100 (20V-100V) 20.0A/ Case: TO-220AB/AC	22
SRF20H20-H100 (20V-100V) 20.0A/ Case: ITO-220AB/AC	22
SRL25L20-L30 (20V-30V) 25.0A/ Case: TO-220AB/AC	22
SRLF25L20-L30 (20V-30V) 25.0A/ Case: ITO-220AB/AC	22
SR2520-60 (20V-60V) 25.0A/ Case: TO-220AB/AC	22
SRF2520-60 (20V-60V) 25.0A/ Case: ITO-220AB/AC	22
SR25H20-H60 (20V-60V) 25.0A/ Case: TO-220AB/AC	23
SRF25H20-H60 (20V-60V) 25.0A/ Case: ITO-220AB/AC	23
SR3020-60 (20V-60V) 30.0A/ Case: TO-220AB/AC	23
SRF3020-60 (20V-60V) 30.0A/ Case: ITO-220AB/AC	23
SR30H20-H60 (20V-60V) 30.0A/ Case: TO-220AB/AC	23
SRF30H20-H60 (20V-60V) 30.0A/ Case: ITO-220AB/AC	23
SRL2020PT-40PT (20V-40V) 20.0A/ Case: TO-247AD (TO-3P)	24
SRL3020PT-40PT (20V-40V) 30.0A/ Case: TO-247AD (TO-3P)	24
SR3020PT-60PT (20V-60V) 30.0A/ Case: TO-247AD (TO-3P)	24
SR30H20PT-H100PT (20V-100V) 30.0A/ Case: TO-247AD (TO-3P)	24
SRL40L15PT (15V) 40.0A/ Case: TO-247AD (TO-3P)	25
SRL4020PT-60PT (20V-60V) 40.0A/ Case: TO-247AD (TO-3P)	25
SR4020PT-60PT (20V-60V) 40.0A/ Case: TO-247AD (TO-3P)	25
SR40H20PT-H60PT (20V-60V) 40.0A/ Case: TO-247AD (TO-3P)	25

HIGH VOLTAGE & LOW VOLTAGE RECTIFIERS

PHOTO130-500 (1300V-5000V) 0.5/0.2A / Case:DO-41/DO-15	26
HVR6000-24000 (6000V-24000V) 5mA / Case: HVR-1/HVR-2	26
M50-160FF3 (5000V-16000V) 40-10mA /Case: Hermefic	26
X20-150FF3 (2000V-15000V) 420-50mA/ Case: Hermefic	26
Z20-100FF3 (2000V-10000V) 1000-180mA/Case: Hermefic	26
M50-160FF5 (5000V-16000V) 40-10mA /Case: Hermefic	26
X20-150FF5 (2000V-15000V) 420-50mA /Case: Hermefic	26
Z20-100FF5 (2000V-10000V) 1000-180mA/Case: Hermefic	26
1N6512-6535 (1500V-10000V) 0.025-2.0A/Case: Hermetic	27
X06FF3-Z10FF5 (600V-1000V) 0.5-2.25A / Case : Hermetic	27

HIGH VOLTAGE HIGH CURRENT ASSEMBLY RECTIFIERS

HV5-15 (5000V-15000V) 350mA / Case : HV	28
HC5-15 (5000V-15000V) 1000-500mA / Case : HC	28
HVP5-16 (5000V-16000V) 750mA / Case : HVP	28



BRIDGE RECTIFIERS

B05S-10S (50V-1000V) 0.5A / Case : MDF	29
DF005S-10S (50V-1000V) 1.0A / Case : DFS	29
DF151S-7S (50V-1000V) 1.5A / Case :DFS	29
DF005-10 (50V-1000V) 1.0A / Case : DF	29
DF151-7 (50V-1000V) 1.5A / Case : DF	29
RB151-7 (50V-1000V) 1.5A / Case : RB-15	30
W005M-10M (50V-1000V) 1.0A / Case : WOB	30
RC201-7 / 2W01-7 (50V-1000V) 2.0A / Case : RC-2	30
RS101-7 (50V-1000V) 1.0A / Case : RS-1	30
KBJ2A-M (50V-1000V) 2.0A / Case : KBJ2	30
GBP/KBP/TBP005-10 (50V-1000V) 2.0A / Case : KBP/TBP/GBP	31
GBL005-10 (50V-1000V) 4.0A / Case : GBL	31
KBJ4A-M (50V-1000V) 4.0A / Case : KBJ	31
RS401L-10L / KBL/TBL005-10 (50V-1000V) 4.0A / Case : KBL/RS4L/TBL	31
GBU005-10 (50V-1000V) 4.0A / Case : GBU	32
RS501-07/B40C-38C (50V-1000V) 4.0A / Case : RS-5	32
KBJ6A-M (50V-1000V) 6.0A / Case : KBJ	32
RS601-7/ GBU6005-10/ KBU/TBU6A-M (50V-1000V) 6.0A / Case : TBU/GBU	32
KBJ8A-M (50V-1000V) 8.0A / Case : KBJ	33
RS801/GBU/KBU/TBU8A-M (50V-1000V) 8.0A / Case : TBU/GBU	33
KBJ10A-M/GBU005-10 (50V-1000V) 10.0A / Case : KBJ/GBU	33
KBU/TBU10A-M (50V-1000V) 10A / Case : KBU/TBU	33
KBJ15A-M / GBU15005-10 (50V-1000V) 15A / Case : KBJ/GBU	33
KBU / TBU15A-M (50V-1000V) 15A / Case : KBU/TBU	34
KBJ25A-M/GBU005-10 (50V-1000V) 25A / Case : KBJ/GBU	34
KBU/TBU25A-M (50V-1000V) 25A / Case : KBU/TBU	34
BR305-10/KBPC1005-10 (50V-1000V) 3A / Case : BR-3	34
BR605-10/KBPC6005-10 (50V-1000V) 6.0A / Case : BR-6	34
BR805-10/KBPC8005-10 (50V-1000V) 8.0A / Case : BR-8/10	35
BR1005-10/KBPC1005-10 (50V-1000V) 10.0A / Case : BR-8/10	35
BR1505-10 (50V-1000V) 15.0A / Case : BR-25(W)	35
BR2505-10 (50V-1000V) 25.0A / Case : BR-25(W)	35
BR3505-10 (50V-1000V) 35.0A / Case : BR-25(W)	35
BR5005-10 (50V-1000V) 50.0A / Case : BR-25(W)	36
MB15/KBPC15005-10 (50V-1000V) 15.0A / Case : KBPC(W)	36
MB25/RA25/KBPC25005-10 (50V-1000V) 25.0A / Case : KBPC(W)	36
MB35/RA35/KBPC35005-10 (50V-1000V) 35.0A / Case : KBPC(W)	37
MB50/KBPC50005-10 (50V-1000V) 50.0A / Case : KBPC(W)	37



SURFACE MOUNT :

STANDARD RECOVERY RECTIFIERS

SURFACE MOUNT :

GL34A-M (50V-1000V) 0.5A / Case : MINI MELF (DO-213AA)	38
GL1A-M (50V-1000V) 1.0A / Case : MINI MELF (DO-213AA)	38
LL4001-7 (50V-1000V) 1.0A / Case : MELF (DO-213AB)	38
M1-7 (50V-1000V) 1.0A / Case : SMA (DO-214AC)	38
LL5391-7 (50V-1000V) 1.5A / Case : MELF (DO-213AB)	39
LL2001-7 (50V-1000V) 2.0A / Case : MELF (DO-213AB)	39
LL5401-7 (50V-1000V) 3.0A / Case : MELF (DO-213AB)	39
S1A-1M (50V-1000V) 1.0A / Case : SMB (DO-214AA)	39
S2A-M (50V-1000V) 2.0A / Case : SMB (DO-214AA)	40
S3A-M (50V-1000V) 3.0A / Case : SMC (DO-214AB)	40

FAST RECOVERY RECTIFIERS :

SURFACE MOUNT :

LLF101-7 (50V-1000V) 1.0A / Case : MELF (DO-213AB)	41
1A-M (50V-1000V) 1.0A / Case : SMA (DO-214AC)	41
FR2A-M (50V-1000V) 2.0A / Case : SMB (DO-214AA)	41

SUPER FAST RECOVERY RECTIFIERS :

SURFACE MOUNT :

SFM101-6 (50V-600V) 1.0A / Case : MELF (DO-213AB)	42
ES1A-M (50V-600V) 1.0A / Case : SMA (DO-214AC)	42
E1A-M (50V-200V) 1.0A / Case : SMA (DO-214AC)	42
BYG22A-D (50V-200V) 2.0A / Case : SMA (DO-214AC)	42
ER1A-J (50V-600V) 1.0A / Case : SMB (DO-214AA)	42
ER2A-J (50V-600V) 2.0A / Case : SMB (DO-214AA)	42

ULTRA FAST & HIGH EFFICIENCY RECTIFIERS :

SURFACE MOUNT :

LL101-8 (50V-1000V) 1.0A / Case : MELF (DO-213AB)	43
US1A-M (50V-1000V) 1.0A / Case : SMA (DO-214AC)	43
UF1A-M (50V-1000V) 1.0A / Case : SMB (DO-214AA)	43
UF2A-M (50V-1000V) 2.0A / Case : SMB (DO-214AA)	43
US2A-M (50V-1000V) 2.0A / Case : SMA (DO-214AC)	43

SCHOTTKY DIODES :

SURFACE MOUNT :

SGL34-20-60 (20V-60V) 0.8A / Case : MINI MELF (DO-213AA)	44
--	----



LL5817-19/ SGL41-50-60 (50V-60V) 1.0A / Case : MELF (DO-213AB)	44
S12-S1A0 (20V-100V) 1.0A / Case : SMA (DO-214AC)	44
S22-S2A0 (20V-100V) 2.0A / Case : SMA (DO-214AC)	44
S32-S3A0 (20V-100V) 3.0A / Case : SMA (DO-214AC)	44
SB12-1A0 (20V-100V) 1.0A / Case : SMB (DO-214AA)	45
SB22-2A0 (20V-100V) 2.0A / Case : SMB (DO-214AA)	45
SB32-3A0 (20V-100V) 3.0A / Case : SMB (DO-214AA)	45
SB52-5A0 (20V-100V) 5.0A / Case : SMB (DO-214AA)	45
SK32-3A0 (20V-100V) 3.0A / Case : SMC (DO-214AB)	46
SK52-5A0 (20V-100V) 5.0A / Case : SMC (DO-214AB)	46

TRANSIENT VOLTAGE SUPPRESSORS

SURFACE MOUNT :

P4KEC(A) series(6.8V-440V) 400W/Case: DO-41	47
SA5.0C(A) series(5V-170V) /500W / Case: DO-15	48
SAC5.0 series(7V-55V) /Case: DO-15	49
LC P6KE series (7V-370V) / Case : DO-15	49
P6KEC(A) series(6.8-440V) 600W/Case: DO-15	50
1.5KEC(A) series(6.8V-440V) 1500W/Case: DO-201AD	51
5KEC(A) series(7V-222V) 1500W/Case: P-6	52

SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

P4SMAJ (C(A)) series(6.8V-170V) 400W/Case: SMA (DO-214AC)	53
P6SMBJ (C(A)) series(6.8V-170V) 600W/Case: SMB (DO-214AA)	54
1.5KESMCJ (C(A)) series(6.8V-170V) 1500W/Case: SMC (DO-214AB)	55
3.0SMCJ (C(A)) series(6.8V-170V) 3000W/Case: SMC (DO-214AB)	56

SMALL SIGNAL SCHOTTKY DIODE :

1N60 (P) (20V-30V) 30-50mA / Case : DO-35(GLASS)	57
MA700 (A) / 1SS106 (15V-30V) 30mA / Case : DO-35 (GLASS)	57
1N4148 (M) 150mA 100V / Case : DO-35 (GLASS)	57
BAT85/BAT47/48 150mA-350mA (20V-40V) / Case : DO-35 (GLASS)	57
1N5711/1N6263 400mWATT 60V-70V / Case : DO-35 (GLASS)	57

SMALL SIGNAL SWITCHING DIODE :

LL101A-C 400mWATT (40V-60V) / Case : MINI MELF(GLASS)	58
LL103A-C 400mWATT (40V-20V) / Case : MINI MELF(GLASS)	58
BAT42WS-43WS 100mA 30V / Case : SOD-323	58
1N4148WS/ 1N4148W 150mA 100V / Case : SOD-323	58
BAV99 / BAV70/BAS16 200mA-215mA 70V-75V / Case : SOT-23	58



SD103A-C 400mWATT (40V-20V)/ Case : DO-35(GLASS)	59
LL60 (P) 30-50mA 20-30V / Case : MINI MELF(GLASS)	59
LL4148 150mA 100V / Case : MINI MELF(GLASS)	59
LS4148 150mA 100V / Case : QUADRO MELF(GLASS)	59
LL85 200mA 30V / Case : MINI MELF(GLASS)	59
SMALL SIGNAL SWITCHING DIODES :	
BAW56 200A 200V / Case : SOT-23	60
BAT54-A-C-S 200mA 30V / Case : SOT-23	60
SILICON BIDIRECTIONAL DIACS	
LLDB3/4/6/C34 150mW / 28-70V / Case : MINI MELF(GLASS)	61
DB3/4-6/DC34 150mW/ 28-70V / Case : DO-35(GLASS)	61
SILICON PLANAR ZENER DIODES	
1N746-759 / 1N957-978 (400mW) / Glass Case : DO-35	62/63
1N5225-5262 (500mW) /Glass Case: DO-35	64
BZX55C0V8-C51 (500mW) /Glass Case: DO-35	65
BZX97C0V8-C51 (500mW) /Glass Case: DO-35	66
1N4729-4764 (1W) / Glass Case:DO-41	67
BZX85C3V6 -C62 (1.3W) / Glass Case: DO-41	68
BZX1.5C3V3 -C200 (1.5W) / Glass Case : DO-41	69
BZX2C3.6 -C200 (2.0W) / Glass Case : DO-41	70
SURFACE MOUNT SILICON PLANAR ZENER DIODES	
ZMM5225-62 (500mW) / Glass Case : MINI MELF(GLASS)	71
ZMM4728-64 (1W) / Glass Case : MELF(GLASS)	72
ZM1.3C2V7-C200 (1.3W) / Glass Case : MELF(GLASS)	73
ZM1.5C3V3-C200 (1.5W) / Glass Case : MELF(GLASS)	74
ZM2C3V6-C200 (2W) / Glass Case : MELF(GLASS)	75
OUTLINE	76-87



GLASS PASSIVATED RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA	
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o	
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)

1N4000GP series. 1 AMP. Plastic Case: DO-41. Outline: 2

1N4001GP	50	1.0	75	50	5.0	1.0	1.1
1N4002GP	100	1.0	75	50	5.0	1.0	1.1
1N4003GP	200	1.0	75	50	5.0	1.0	1.1
1N4004GP	400	1.0	75	50	5.0	1.0	1.1
1N4005GP	600	1.0	75	50	5.0	1.0	1.1
1N4006GP	800	1.0	75	50	5.0	1.0	1.1
1N4007GP	1000	1.0	75	50	5.0	1.0	1.1

GP151 series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

GP151	50	1.5	75	60	5.0	1.5	1.1
GP152	100	1.5	75	60	5.0	1.5	1.1
GP153	200	1.5	75	60	5.0	1.5	1.1
GP154	400	1.5	75	60	5.0	1.5	1.1
GP155	600	1.5	75	60	5.0	1.5	1.1
GP156	800	1.5	75	60	5.0	1.5	1.1
GP157	1000	1.5	75	60	5.0	1.5	1.1

1N5391GP series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

1N5391GP	50	1.5	60	50	5.0	1.5	1.4
1N5392GP	100	1.5	60	50	5.0	1.5	1.4
1N5393GP	200	1.5	60	50	5.0	1.5	1.4
1N5394GP	300	1.5	60	50	5.0	1.5	1.4
1N5395GP	400	1.5	60	50	5.0	1.5	1.4
1N5396GP	500	1.5	60	50	5.0	1.5	1.4
1N5397GP	600	1.5	60	50	5.0	1.5	1.4
1N5398GP	800	1.5	60	50	5.0	1.5	1.4
1N5399GP	1000	1.5	60	50	5.0	1.5	1.4

GP201 series. 2.0 AMP. Plastic Case: DO-15. Outline: 3

GP201	50	2.0	60	70	5.0	2.0	1.0
GP202	100	2.0	60	70	5.0	2.0	1.0
GP203	200	2.0	60	70	5.0	2.0	1.0
GP204	400	2.0	60	70	5.0	2.0	1.0
GP205	600	2.0	60	70	5.0	2.0	1.0
GP206	800	2.0	60	70	5.0	2.0	1.0
GP207	1000	2.0	60	70	5.0	2.0	1.0

1N5400G series. 3 AMP. Plastic Case: DO-201AD. Outline: 4

1N5400G	50	3.0	75	200	5.0	3.0	1.0
1N5401G	100	3.0	75	200	5.0	3.0	1.0
1N5402G	200	3.0	75	200	5.0	3.0	1.0
1N5404G	400	3.0	75	200	5.0	3.0	1.0
1N5406G	600	3.0	75	200	5.0	3.0	1.0
1N5407G	800	3.0	75	200	5.0	3.0	1.0
1N5408G	1000	3.0	75	200	5.0	3.0	1.0



GLASS PASSIVATED RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA	
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o	
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)

GP600 series. 6 AMP. Plastic Case: P-6. Outline: 5

GP600A	50	6.0	60	300	5.0	6.0	1.1
GP600B	100	6.0	60	300	5.0	6.0	1.1
GP600D	200	6.0	60	300	5.0	6.0	1.1
GP600G	400	6.0	60	300	5.0	6.0	1.1
GP600J	600	6.0	60	300	5.0	6.0	1.1
GP600K	800	6.0	60	300	5.0	6.0	1.1
GP600M	1000	6.0	60	300	5.0	6.0	1.1



SILICON RECTIFIERS

OPERATING AND STORAGE TEMPERATURE –65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3 ms Superimposed	Maximum Reverse Current @PRV @25°C T	Maximum Forward Voltage @25°C T	
	P.I.V.	I _o at T _A		I _{FSM}	I _R	V _F at I _o	
	(V)	(A)	(°C)	(A)	(μ A)	(A)	(V)

RL1A1 Series. 1 AMP. Plastic Case: R-1. Outline: 1

RLA1	50	1.0	75	50	5.0	1.0	1.1
RLA2	100	1.0	75	50	5.0	1.0	1.1
RLA3	200	1.0	75	50	5.0	1.0	1.1
RLA4	400	1.0	75	50	5.0	1.0	1.1
RLA5	600	1.0	75	50	5.0	1.0	1.1
RLA6	800	1.0	75	50	5.0	1.0	1.1
RLA7	1000	1.0	75	50	5.0	1.0	1.1

1N4000 Series. 1 AMP. Plastic Case: DO-41. Outline: 2

1N4001	50	1.0	75	50	5.0	1.0	1.1
1N4002	100	1.0	75	50	5.0	1.0	1.1
1N4003	200	1.0	75	50	5.0	1.0	1.1
1N4004	400	1.0	75	50	5.0	1.0	1.1
1N4005	600	1.0	75	50	5.0	1.0	1.1
1N4006	800	1.0	75	50	5.0	1.0	1.1
1N4007	1000	1.0	75	50	5.0	1.0	1.1

BYW27 Series. 1 AMP Plastic Case: DO-15. Outline: 3

EM513, BY127M, and BY133. 1 AMP. Plastic Case: DO-41. Outline: 2

BYW27-50	50	1.0	70	50	0.20	1.0	1.0
BYW27-100	100	1.0	70	50	0.20	1.0	1.0
BYW27-200	200	1.0	70	50	0.20	1.0	1.0
BYW27-400	400	1.0	70	50	0.20	1.0	1.0
BYW27-600	600	1.0	70	50	0.20	1.0	1.0
BYW27-800	800	1.0	70	50	0.20	1.0	1.0
BYW27-1000	1000	1.0	70	50	0.20	1.0	1.0
EM513	1000	1.0	75	50	5.0	1.0	1.1
BY127M	1250	1.0	75	50	5.0	1.0	1.1
BY133	1300	1.0	75	50	5.0	1.0	1.1

1N5391 Series. 1.5 AMP. Plastic Case: DO-15,Outline: 3

1N5391	50	1.5	75	50	5.0	1.5	1.4
1N5392	100	1.5	75	50	5.0	1.5	1.4
1N5393	200	1.5	75	50	5.0	1.5	1.4
1N5394	300	1.5	75	50	5.0	1.5	1.4
1N5395	400	1.5	75	50	5.0	1.5	1.4
1N5396	500	1.5	75	50	5.0	1.5	1.4
1N5397	600	1.5	75	50	5.0	1.5	1.4
1N5398	800	1.5	75	50	5.0	1.5	1.4
1N5399	1000	1.5	75	50	5.0	1.5	1.4



SILICON RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to $+175^{\circ}\text{C}$

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A=25^{\circ}\text{C}$	Max Forward Voltage Drop at $T_A=25^{\circ}\text{C}$	
	P.I.V.	I_o at T_A		I_{FSM}	I_R	V_F at I_o	
	(V)	(A)	($^{\circ}\text{C}$)	(A)	(μA)	(A)	(V)

RL200 Series. 2.0 AMP. Plastic Case:DO-15. Outline:3

RL201	50	2.0	75	70	5.0	2.0	1.0
RL202	100	2.0	75	70	5.0	2.0	1.0
RL203	200	2.0	75	70	5.0	2.0	1.0
RL204	400	2.0	75	70	5.0	2.0	1.0
RL205	600	2.0	75	70	5.0	2.0	1.0
RL206	800	2.0	75	70	5.0	2.0	1.0
RL207	1000	2.0	75	70	5.0	2.0	1.0

RL250 Series. 2.5 AMP. Plastic Case:R-3. Outline:6

RL251	50	2.5	50	150	5.0	2.5	1.0
RL252	100	2.5	50	150	5.0	2.5	1.0
RL253	200	2.5	50	150	5.0	2.5	1.0
RL254	400	2.5	50	150	5.0	2.5	1.0
RL255	600	2.5	50	150	5.0	2.5	1.0
RL256	800	2.5	50	150	5.0	2.5	1.0
RL257	1000	2.5	50	150	5.0	2.5	1.0

BY250 Series. 3 AMP. Plastic Case:DO-201AD. Outline:4

BY251	200	3.0	50	100	20	3.0	1.1
BY252	400	3.0	50	100	20	3.0	1.1
BY253	600	3.0	50	100	20	3.0	1.1
BY254	800	3.0	50	100	20	3.0	1.1
BY255	1300	3.0	50	100	20	3.0	1.1

1N5400 Series. 3 AMP. Plastic Case:DO-201AD. Outline:4

1N5400	50	3.0	75	200	10	3.0	1.2
1N5401	100	3.0	75	200	10	3.0	1.2
1N5402	200	3.0	75	200	10	3.0	1.2
1N5404	400	3.0	75	200	10	3.0	1.2
1N5406	600	3.0	75	200	10	3.0	1.2
1N5407	800	3.0	75	200	10	3.0	1.2
1N5408	1000	3.0	75	200	10	3.0	1.2

1N400S Series. 1 AMP. Plastic Case:A-405. Outline:7

1N4001S	50	1.0	75	30	5	50*	1.0	1.0
1N4002S	100	1.0	75	30	5	50*	1.0	1.0
1N4003S	200	1.0	75	30	5	50*	1.0	1.0
1N4004S	400	1.0	75	30	5	50*	1.0	1.0
1N4005S	600	1.0	75	30	5	50*	1.0	1.0
1N4006S	800	1.0	75	30	5	50*	1.0	1.0
1N4007S	1000	1.0	75	30	5	50*	1.0	1.0



SILICON RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to $+175^{\circ}\text{C}$

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A=25^{\circ}\text{C}$	Max. Forward Voltage Drop at $T_A=25^{\circ}\text{C}$	
	P.I.V.	I_o at T_A		I_{FSM}	I_R	V_F at I_o	
	(V)	(A)	($^{\circ}\text{C}$)	(A)	(μA)	(A)	(V)

BY550 Series. 5 AMP. Plastic Case:DO-201AD. Outline:4 BY228 Plastic Case:R-3 Outline:6

BY550-50	50	5.0	60	300	20	5.0	1.1
BY550-100	100	5.0	60	300	20	5.0	1.1
BY550-200	200	5.0	60	300	20	5.0	1.1
BY550-400	400	5.0	60	300	20	5.0	1.1
BY550-600	600	5.0	60	300	20	5.0	1.1
BY550-800	800	5.0	60	300	20	5.0	1.1
BY227	1200	5.0	60	300	200	5.0	1.5
BY228	1500	1.75	60	300	10	5.0	1.5

P-600 Series. 6 AMP. Plastic Case:P-6. Outline:5

P600A	50	6.0	60	400	25	6.0	0.9
P600B	100	6.0	60	400	25	6.0	0.9
P600D	200	6.0	60	400	25	6.0	0.9
P600G	400	6.0	60	400	25	6.0	0.9
P600J	600	6.0	60	400	25	6.0	0.9
P600K	800	6.0	60	400	25	6.0	0.9
P600M	1000	6.0	60	400	25	6.0	0.9



FAST RECOVERY GLASS PASSIVATED RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA		Maximum Reverse Recovery Time
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

FR100G series. 1 AMP. Plastic Case: DO-41. Outline: 2

FR101G	50	1.0	55	50	5.0	1.0	1.3	150
FR102G	100	1.0	55	50	5.0	1.0	1.3	150
FR103G	200	1.0	55	50	5.0	1.0	1.3	150
FR104G	400	1.0	55	50	5.0	1.0	1.3	150
FR105G	600	1.0	55	50	5.0	1.0	1.3	250
FR106G	800	1.0	55	50	5.0	1.0	1.3	500
FR107G	1000	1.0	55	50	5.0	1.0	1.3	500

1N4933GP series. 1 AMP. Plastic Case: DO-41/DO-15. Outline: 2/3

1N4933GP	50	1.0	50	50	5.0	1.0	1.3	200
1N4934GP	100	1.0	50	50	5.0	1.0	1.3	200
1N4935GP	200	1.0	50	50	5.0	1.0	1.3	200
1N4936GP	400	1.0	50	50	5.0	1.0	1.3	200
1N4937GP	600	1.0	50	50	5.0	1.0	1.3	200

1N4942GP series. 1 AMP. Plastic Case: DO-41/DO-15. Outline: 2/3

1N4942GP	200	1.0	55	50	5.0	1.0	1.3	150
1N4944GP	400	1.0	55	50	5.0	1.0	1.3	150
1N4946GP	600	1.0	55	50	5.0	1.0	1.3	250
1N4947GP	800	1.0	55	50	5.0	1.0	1.3	500
1N4948GP	1000	1.0	55	50	5.0	1.0	1.3	500

FR150G series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

FR151G	50	1.5	55	60	5.0	1.5	1.3	150
FR152G	100	1.5	55	60	5.0	1.5	1.3	150
FR153G	200	1.5	55	60	5.0	1.5	1.3	150
FR154G	400	1.5	55	60	5.0	1.5	1.3	150
FR155G	600	1.5	55	60	5.0	1.5	1.3	250
FR156G	800	1.5	55	60	5.0	1.5	1.3	500
FR157G	1000	1.5	55	60	5.0	1.5	1.3	500

FR200G series. 2.0 AMP. Plastic Case: DO-15. Outline: 3

FR201G	50	2.0	55	65	5.0	2.0	1.3	150
FR202G	100	2.0	55	65	5.0	2.0	1.3	150
FR203G	200	2.0	55	65	5.0	2.0	1.3	150
FR204G	400	2.0	55	65	5.0	2.0	1.3	150
FR205G	600	2.0	55	65	5.0	2.0	1.3	150
FR206G	800	2.0	55	65	5.0	2.0	1.3	150
FR207G	1000	2.0	55	65	5.0	2.0	1.3	150

FR300G series. 3.0 AMP. Plastic Case: DO-201AD. Outline: 4

FR301G	50	3.0	55	125	5.0	3.0	1.3	150
FR302G	100	3.0	55	125	5.0	3.0	1.3	150
FR303G	200	3.0	55	125	5.0	3.0	1.3	150
FR304G	400	3.0	55	125	5.0	3.0	1.3	150
FR305G	600	3.0	55	125	5.0	3.0	1.3	250
FR306G	800	3.0	55	125	5.0	3.0	1.3	500
FR307G	1000	3.0	55	125	5.0	3.0	1.3	500



FAST RECOVERY GLASS PASSIVATED RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA		Maximum Reverse Recovery Time
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	nS

FR600G series. 6.0 AMP. Plastic Case: P-6. Outline: 5

FR601G	50	6.0	55	300	10	6.0	1.3	150
FR602G	100	6.0	55	300	10	6.0	1.3	150
FR603G	200	6.0	55	300	10	6.0	1.3	150
FR604G	400	6.0	55	300	10	6.0	1.3	150
FR605G	600	6.0	55	300	10	6.0	1.3	250
FR606G	800	6.0	55	300	10	6.0	1.3	500
FR607G	1000	6.0	55	300	10	6.0	1.3	500



FAST RECOVERY RECTIFIERS

OPERATING AND STORAGE TEMPERATURE (-65°C to +175°C)

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A=25^\circ\text{C}$	Max. Forward Voltage Drop at $T_A=25^\circ\text{C}$		Max. Reverse Recovery Time
	V_{RRM}	$I_{F(AV)}$ at T_A		I_{FSM}	I_R	V_F at $I_{F(AV)}$		t_{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(ns)

FR100 Series. 1 AMP. Plastic Case: DO-41. Outline: 2

FR101	50	1.0	55	50	5.0	1.0	1.3	150
FR102	100	1.0	55	50	5.0	1.0	1.3	150
FR103	200	1.0	55	50	5.0	1.0	1.3	150
FR104	400	1.0	55	50	5.0	1.0	1.3	150
FR105	600	1.0	55	50	5.0	1.0	1.3	250
FR106	800	1.0	55	50	5.0	1.0	1.3	500
FR107	1000	1.0	55	50	5.0	1.0	1.3	500

IP640 Series. 1 AMP. Plastic Case: DO-15. Outline: 3

IP643	50	1.0	45	35	5.0	1.0	1.3	500
IP644	100	1.0	45	35	5.0	1.0	1.3	500
IP645	225	1.0	45	35	5.0	1.0	1.3	500
IP646	300	1.0	45	35	5.0	1.0	1.3	500
IP647	400	1.0	45	35	5.0	1.0	1.3	500
IP648	500	1.0	45	35	5.0	1.0	1.3	500

1N4933 Series. 1 AMP. Plastic Case: DO-41/DO-15. Outline: 2/3

1N4933	50	1.0	50	30	5.0	1.0	1.3	200
1N4934	100	1.0	50	30	5.0	1.0	1.3	200
1N4935	200	1.0	50	30	5.0	1.0	1.3	200
1N4936	400	1.0	50	30	5.0	1.0	1.3	200
1N4937	600	1.0	50	30	5.0	1.0	1.3	200

1N4942 Series. 1 AMP. Plastic Case: DO-41/DO-15. Outline: 2/3

1N4942	200	1.0	55	50	1.0	1.0	1.3	150
1N4944	400	1.0	55	50	1.0	1.0	1.3	150
1N4946	600	1.0	55	50	1.0	1.0	1.3	250
1N4947	800	1.0	55	50	1.0	1.0	1.3	500
1N4948	1000	1.0	55	50	1.0	1.0	1.3	500

FR150 Series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

FR151	50	1.5	55	60	5.0	1.5	1.3	150
FR152	100	1.5	55	60	5.0	1.5	1.3	150
FR153	200	1.5	55	60	5.0	1.5	1.3	150
FR154	400	1.5	55	60	5.0	1.5	1.3	150
FR155	600	1.5	55	60	5.0	1.5	1.3	250
FR156	800	1.5	55	60	5.0	1.5	1.3	500
FR157	1000	1.5	55	60	5.0	1.5	1.3	500



FAST RECOVERY RECTIFIERS

OPERATING STORAGE TEMPERATURE -65°C to +175°C

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at T _A =25°C	Max. Forward Voltage Drop at T _A =25°C		Max. Reverse Recovery Time
	V _{RRM}	I _{F(AV)} at T _A		I _{FSM}	I _R	V _F at I _{F(AV)}		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(ns)

BA150 Series. 1 AMP. Plastic Case: DO-41/DO-15. Outline: 2/3

BA157	400	1.0	45	35	5.0	1.0	1.3	300(1)
BA158	600	1.0	45	35	5.0	1.0	1.3	300(1)
BA159	1000	1.0	45	35	5.0	1.0	1.3	300(1)

BY290 Series. 2 AMP. Plastic Case: DO-201AD. Outline: 4

BY296	100	2.0	50	70	10	3.0	1.3	500(1)
BY297	200	2.0	50	70	10	3.0	1.3	500(1)
BY298	400	2.0	50	70	10	3.0	1.3	500(1)
BY299	800	2.0	50	70	10	3.0	1.3	500(1)

FR250 Series. 2.5 AMP. Plastic Case: R-3. Outline: 6

FR251	50	2.5	50	150	5.0	2.5	1.3	150(3)
FR252	100	2.5	50	150	5.0	2.5	1.3	150(3)
FR253	200	2.5	50	150	5.0	2.5	1.3	150(3)
FR254	400	2.5	50	150	5.0	2.5	1.3	150(3)
FR255	600	2.5	50	150	5.0	2.5	1.3	250(3)
FR256	800	2.5	50	150	5.0	2.5	1.3	500(3)
FR257	1000	2.5	50	150	5.0	2.5	1.3	500(3)

FR300 Series. 3 AMP. Plastic Case: DO-201AD. Outline: 4

FR301	50	3.0	55	200	10.0	3.0	1.3	150(3)
FR302	100	3.0	55	200	10.0	3.0	1.3	150(3)
FR303	200	3.0	55	200	10.0	3.0	1.3	150(3)
FR304	400	3.0	55	200	10.0	3.0	1.3	150(3)
FR305	600	3.0	55	200	10.0	3.0	1.3	250(3)
FR306	800	3.0	55	200	10.0	3.0	1.3	500(3)
FR307	1000	3.0	55	200	10.0	3.0	1.3	500(3)

BY390 Series. 3 AMP. Plastic Case: DO-201AD. Outline: 4

BY396	100	3.0	50	100	10	3.0	1.3	500(1)
BY397	200	3.0	50	100	10	3.0	1.3	500(1)
BY398	400	3.0	50	100	10	3.0	1.3	500(1)
BY399	800	3.0	50	100	10	3.0	1.3	500(1)



FAST RECOVERY RECTIFIERS

OPERATING STORAGE TEMPERATURE -65°C to +175°C

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at T _A =25°C	Max. Forward Voltage Drop at T _A =25°C		Max. Reverse Recovery Time
	V _{RRM}	I _{F(AV)} at T _A		I _{FSM}	I _R	V _F at I _{F(AV)}		t _{rr}
	(V)	(A)	(°C)	(A)	(µA)	(A)	(V)	(ns)

1N5185 Series. 3 AMP. Plastic Case: DO-201AD Outline: 4

1N5185	50	3.0	25	200	5.0	3.0	1.3	150(3)
1N5186	100	3.0	25	200	5.0	3.0	1.3	150(3)
1N5187	200	3.0	25	200	5.0	3.0	1.3	150(3)
1N5188	400	3.0	25	200	5.0	3.0	1.3	150(3)
1N5189	600	3.0	25	200	5.0	3.0	1.3	250(3)

MR850 Series. 3 AMP. Plastic Case: DO-201AD Outline: 4

MR850	50	3.0	90	100	10	3.0	1.25	200(2)
MR851	100	3.0	90	100	10	3.0	1.25	200(2)
MR852	200	3.0	90	100	10	3.0	1.25	200(2)
MR854	400	3.0	90	100	10	3.0	1.25	200(2)
MR856	600	3.0	90	100	10	3.0	1.25	200(2)

MR820 Series. 5 AMP. Plastic Case:P-6. Outline:5

MR820	50	5.0	55	300	25	5.0	1.0	200(2)
MR821	100	5.0	55	300	25	5.0	1.0	200(2)
MR822	200	5.0	55	300	25	5.0	1.0	200(2)
MR824	400	5.0	55	300	25	5.0	1.0	200(2)
MR826	600	5.0	55	300	25	5.0	1.0	200(2)

FR600 Series. 6 AMP. Plastic Case:P-6. Outline:5

FR601	50	6.0	55	300	10	6.0	1.3	150(3)
FR602	100	6.0	55	300	10	6.0	1.3	150(3)
FR603	200	6.0	55	300	10	6.0	1.3	150(3)
FR604	400	6.0	55	300	10	6.0	1.3	150(3)
FR605	600	6.0	55	300	10	6.0	1.3	250(3)
FR606	800	6.0	55	300	10	6.0	1.3	500(3)
FR607	1000	6.0	55	300	10	6.0	1.3	500(3)

Notes:

- (1) Reverse recovery test conditions: I_F=10mA, I_R=10mA recover to 1.0mA.
- (2) Reverse recovery test conditions: I_F=1A to V_R=30V.
- (3) Reverse recovery test conditions: I_F=0.5A; I_R=1A with t_{rr}=0.25A.

FR1600 / FRF1600 Series 16Amp / TO220AB/AC & ITO220AB/AC Outline : 15/16/17/18

FR16005	50	16	100	150	5.0	100	8.0	1.3	150
FR1601	100	16	100	150	5.0	100	8.0	1.3	150
FR1602	200	16	100	150	5.0	100	8.0	1.3	150
FR1604	400	16	100	150	5.0	100	8.0	1.3	150
FR1606	600	16	100	150	5.0	100	8.0	1.3	150
FR1608	800	16	100	150	5.0	100	8.0	1.3	150
FR1610	1000	16	100	150	5.0	100	8.0	1.3	150
FR16005	50	16	100	150	5.0	100	8.0	1.3	150
FR1601	100	16	100	150	5.0	100	8.0	1.3	150
FR1602	200	16	100	150	5.0	100	8.0	1.3	150
FR1604	400	16	100	150	5.0	100	8.0	1.3	150
FR1606	600	16	100	150	5.0	100	8.0	1.3	150
FR1608	800	16	100	150	5.0	100	8.0	1.3	150
FR1610	1000	16	100	150	5.0	100	8.0	1.3	150

T_j and T_{stg} of -40°C to +150°C
I_{FSM} for 25°C



SUPER FAST RECTIFIERS

GLASS PASSIVATED CHIP JUNCTIONS
OPERATING AND STORAGE TEMPERATURE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA		Maximum Reverse Recovery Time
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

SF11 series. 1.0 AMP. Plastic Case: DO-41. Outline: 2

SF11	50	1.0	55	30	5.0	1.0	0.95	35
SF12	100	1.0	55	30	5.0	1.0	0.95	35
SF13	150	1.0	55	30	5.0	1.0	0.95	35
SF14	200	1.0	55	30	5.0	1.0	0.95	35
SF15	300	1.0	55	30	5.0	1.0	1.30	35
SF16	400	1.0	55	30	5.0	1.0	1.30	35

SF21 series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

SF21	50	2.0	55	75	5.0	2.0	0.95	35
SF22	100	2.0	55	75	5.0	2.0	0.95	35
SF23	150	2.0	55	75	5.0	2.0	0.95	35
SF24	200	2.0	55	75	5.0	2.0	0.95	35
SF25	300	2.0	55	75	5.0	2.0	1.30	35
SF26	400	2.0	55	75	5.0	2.0	1.30	35

SF31 series. 3.0 AMP. Plastic Case: DO-201AD. Outline: 4

SF31	50	3.0	55	125	5.0	3.0	0.95	35
SF32	100	3.0	55	125	5.0	3.0	0.95	35
SF33	150	3.0	55	125	5.0	3.0	0.95	35
SF34	200	3.0	55	125	5.0	3.0	0.95	35
SF35	300	3.0	55	125	5.0	3.0	1.30	35
SF36	400	3.0	55	125	5.0	3.0	1.30	35

SF61 series. 6.0 AMP. Plastic Case: DO-201AD. Outline: 4

SF61	50	6.0	55	150	5.0	5.0	0.975	35
SF62	100	6.0	55	150	5.0	5.0	0.975	35
SF63	150	6.0	55	150	5.0	5.0	0.975	35
SF64	200	6.0	55	150	5.0	5.0	0.975	35
SF65	300	6.0	55	150	5.0	5.0	1.30	35
SF66	400	6.0	55	150	5.0	5.0	1.30	35



SUPER-FAST RECOVERY RECTIFIERS

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @ 25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _c		I _{FSM}	I _R @T _c		V _F	I _F	T _{rr}
		A	°C		A	@25°C μA			

SF500/ SFF500 Series (50V-600V) 5.0A/ Case : TO220AB/AC & ITO220AB/AC Outline : 15/161/17/18

SF5005	50	5.0	132	45	10.0	500	0.98	2.5	35
SF501	100	5.0	132	45	10.0	500	0.98	2.5	35
SF502	200	5.0	132	45	10.0	500	0.98	2.5	35
SF503	300	5.0	132	45	10.0	500	1.3	2.5	35
SF504	400	5.0	132	45	10.0	500	1.3	2.5	35
SF506	600	5.0	132	45	10.0	500	1.7	2.5	35
SFF5005	50	5.0	132	45	10.0	500	0.98	2.5	35
SFF501	100	5.0	132	45	10.0	500	0.98	2.5	35
SFF502	200	5.0	132	45	10.0	500	0.98	2.5	35
SFF503	300	5.0	132	45	10.0	500	1.3	2.5	35
SFF504	400	5.0	132	45	10.0	500	1.3	2.5	35
SFF506	600	5.0	132	45	10.0	500	1.7	2.5	35

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

SF800/ SFF800 Series (50V-600V) 8.0A/ Case : TO220AB/AC & ITO220AB/AC Outline : 15/161/17/18

SF8005	50	8.0	100	125	10.0	500	1.0	8.0	35
SF801	100	8.0	100	125	10.0	500	1.0	8.0	35
SF802	200	8.0	100	125	10.0	500	1.0	8.0	35
SF803	300	8.0	100	125	10.0	500	1.3	8.0	35
SF804	400	8.0	100	125	10.0	500	1.3	8.0	35
SF806	600	8.0	100	125	10.0	500	1.5	8.0	50
SFF8005	50	8.0	100	125	10.0	500	1.0	8.0	35
SFF801	100	8.0	100	125	10.0	500	1.0	8.0	35
SFF802	200	8.0	100	125	10.0	500	1.0	8.0	35
SFF803	300	8.0	100	125	10.0	500	1.3	8.0	35
SFF804	400	8.0	100	125	10.0	500	1.3	8.0	35
SFF806	600	8.0	100	125	10.0	500	1.5	8.0	50

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

SF1000/ SFF1000 Series (50V-600V) 10.0A/ Case : TO220AB/AC & ITO220AB/AC Outline : 15/161/17/18

SF10005	50	10.0	100	125	10.0	500	1.0	5.0	35
SF1001	100	10.0	100	125	10.0	500	1.0	5.0	35
SF1002	200	10.0	100	125	10.0	500	1.0	5.0	35
SF1003	300	10.0	100	125	10.0	500	1.3	5.0	35
SF1004	400	10.0	100	125	10.0	500	1.3	5.0	35
SF1006	600	10.0	100	125	10.0	500	1.5	5.0	50
SFF10005	50	10.0	100	125	10.0	500	1.0	5.0	35
SFF1001	100	10.0	100	125	10.0	500	1.0	5.0	35
SFF1002	200	10.0	100	125	10.0	500	1.0	5.0	35
SFF1003	300	10.0	100	125	10.0	500	1.3	5.0	35
SFF1004	400	10.0	100	125	10.0	500	1.3	5.0	35
SFF1006	600	10.0	100	125	10.0	500	1.5	5.0	50

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C



SUPER-FAST RECOVERY RECTIFIERS

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _c		I _{FSM}	I _R @T _c		V _F	I _F	T _{rr}
	V _{PK}	A	°C	A	@25°C μA	@125°C μA	V	A	ns

SF16000/ SFF16000 Series (50V-600V) 16.0A/ Case : TO220AB/AC & ITO220AB/AC Outline : 15/161/17/18

SF16005	50	16.0	100	125	10.0	500	1.0	8.0	35
SF1601	100	16.0	100	125	10.0	500	1.0	8.0	35
SF1602	200	16.0	100	125	10.0	500	1.0	8.0	35
SF1603	300	16.0	100	125	10.0	500	1.3	8.0	35
SF1604	400	16.0	100	125	10.0	500	1.3	8.0	35
SF1606	600	16.0	100	125	10.0	500	1.5	8.0	50
SFF16005	50	16.0	100	125	10.0	500	1.0	8.0	35
SFF1601	100	16.0	100	125	10.0	500	1.0	8.0	35
SFF1602	200	16.0	100	125	10.0	500	1.0	8.0	35
SFF1603	300	16.0	100	125	10.0	500	1.3	8.0	35
SFF1604	400	16.0	100	125	10.0	500	1.3	8.0	35
SFF1606	600	16.0	100	125	10.0	500	1.5	8.0	50

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

SF2000/ SFF2000 Series (50V-600V) 20.0A/ Case : TO220AB/AC & ITO220AB/AC Outline : 15/161/17/18

SF20005	50	20.0	100	150	10.0	500	1.3	10	35
SF2001	100	20.0	100	150	10.0	500	1.3	10	35
SF2002	200	20.0	100	150	10.0	500	1.3	10	35
SF2003	300	20.0	100	150	10.0	500	1.3	10	35
SF2004	400	20.0	100	150	10.0	500	1.3	10	35
SF2006	600	20.0	100	150	10.0	500	1.5	10	50
SFF20005	50	20.0	100	150	10.0	500	1.3	10	35
SFF2001	100	20.0	100	150	10.0	500	1.3	10	35
SFF2002	200	20.0	100	150	10.0	500	1.3	10	35
SFF2003	300	20.0	100	150	10.0	500	1.3	10	35
SFF2004	400	20.0	100	150	10.0	500	1.3	10	35
SFF2006	600	20.0	100	150	10.0	500	1.5	10	50

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

SF3000PT Series (50V-600) 30A / Case : TO-247AD (TO-3P) Outline : 19

SF30005PT	50	30	100	300	10.0	500	0.95	15	35
SF3001PT	100	30	100	300	10.0	500	0.95	15	35
SF3002PT	200	30	100	300	10.0	500	0.95	15	35
SF3003PT	300	30	100	300	10.0	500	1.30	15	35
SF3004PT	400	30	100	300	10.0	500	1.30	15	35
SF3006PT	600	30	100	300	10.0	500	1.70	15	35

T_j and T_{stg} of -55°C to +150°C

I_R@T_a=25°C



HIGH EFFICIENCY RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +175°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA		Maximum Reverse Recovery Time
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

HER101 series. 1.0 AMP. Plastic Case: DO-41. Outline: 2

HER101	50	1.0	55	30	5.0	1.0	1.0	50
HER102	100	1.0	55	30	5.0	1.0	1.0	50
HER103	200	1.0	55	30	5.0	1.0	1.0	50
HER104	300	1.0	55	30	5.0	1.0	1.0	50
HER105	400	1.0	55	30	5.0	1.0	1.2	50
HER106	600	1.0	55	30	5.0	1.0	1.4	80
HER107	800	1.0	55	30	5.0	1.0	1.4	80

HER151 series. 1.5 AMP. Plastic Case: DO-15. Outline: 3

HER151	50	1.5	55	50	5.0	1.5	1.0	50
HER152	100	1.5	55	50	5.0	1.5	1.0	50
HER153	200	1.5	55	50	5.0	1.5	1.0	50
HER154	300	1.5	55	50	5.0	1.5	1.0	50
HER155	400	1.5	55	50	5.0	1.5	1.2	50
HER156	600	1.5	55	50	5.0	1.5	1.4	80
HER157	800	1.5	55	50	5.0	1.5	1.4	80

HER301 series. 3.0 AMP. Plastic Case: DO-201AD. Outline: 4

HER301	50	3.0	55	150	10	3.0	1.0	50
HER302	100	3.0	55	150	10	3.0	1.0	50
HER303	200	3.0	55	150	10	3.0	1.0	50
HER304	300	3.0	55	150	10	3.0	1.0	50
HER305	400	3.0	55	150	10	3.0	1.2	50
HER306	600	3.0	55	150	10	3.0	1.4	80
HER307	800	3.0	55	150	10	3.0	1.4	80

HER500 Series (50V-1000V) 5.0A / Case : DO-201AD Outline : 4

HER501	50	5.0	50	200	10.0	200	1.0	5.0	50
HER502	100	5.0	50	200	10.0	200	1.0	5.0	50
HER503	200	5.0	50	200	10.0	200	1.0	5.0	50
HER504	300	5.0	50	200	10.0	200	1.3	5.0	50
HER505	400	5.0	50	200	10.0	200	1.3	5.0	50
HER506	600	5.0	50	200	10.0	200	1.7	5.0	75
HER507	800	5.0	50	200	10.0	200	1.7	5.0	75
HER508	1000	5.0	50	200	10.0	200	1.7	5.0	75

HER601 series. 6.0 AMP. Plastic Case: P-6. Outline: 5

HER601	50	6.0	55	275	10	5.0	1.0	60
HER602	100	6.0	55	275	10	5.0	1.0	60
HER603	200	6.0	55	275	10	5.0	1.0	60
HER604	300	6.0	55	275	10	5.0	1.0	60
HER605	400	6.0	55	275	10	5.0	1.2	60
HER606	600	6.0	55	275	10	5.0	1.4	90
HER607	800	6.0	55	275	10	5.0	1.4	90



ULTRA FAST & HIGH EFFICIENCY RECTIFIERS

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _a		I _{FSM}	I _R @T _a		V _F	I _F	T _{rr}
		A	°C		A	@25°C			

MUR410 Series (100V-1000V) 4.0A / Case : DO-201AD Outline : 4

MUR410	100	4.0	40	125	10.0	250	1.0	4.0	35
MUR420	200	4.0	40	125	10.0	250	1.3	4.0	50
MUR440	400	4.0	40	125	10.0	250	1.3	4.0	50
MUR460	600	4.0	40	125	10.0	250	1.3	4.0	50
MUR480	800	4.0	40	125	10.0	250	1.85	4.0	75
MUR4100	1000	4.0	40	125	10.0	250	1.85	4.0	75

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

UF800 / UFF800 Series (50V-800V) 8.0A / Case : TO220AB/AC & ITO220AB/AC Outline : 15/16/17/18

UF8005	50	8.0	100	125	10.0	500	1.0	8.0	50
UF801	100	8.0	100	125	10.0	500	1.0	8.0	50
UF802	200	8.0	100	125	10.0	500	1.0	8.0	50
UF803	300	8.0	100	125	10.0	500	1.3	8.0	75
UF804	400	8.0	100	125	10.0	500	1.3	8.0	75
UF806	600	8.0	100	125	10.0	500	1.7	8.0	100
UF808	800	8.0	100	125	10.0	500	1.7	8.0	100
UFF8005	50	8.0	100	125	10.0	500	1.0	8.0	50
UFF801	100	8.0	100	125	10.0	500	1.0	8.0	50
UFF802	200	8.0	100	125	10.0	500	1.0	8.0	50
UFF803	300	8.0	100	125	10.0	500	1.3	8.0	75
UFF804	400	8.0	100	125	10.0	500	1.3	8.0	75
UFF806	600	8.0	100	125	10.0	500	1.7	8.0	100
UFF808	800	8.0	100	125	10.0	500	1.7	8.0	100

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

UF1000 / UFF1000 Series (50V-800V) 10.0A / Case : TO220AB/AC & ITO220AB/AC Outline : 15/16/17/18

UF10005	50	10	100	100	10.0	500	1.0	5.0	50
UF1001	100	10	100	100	10.0	500	1.0	5.0	50
UF1002	200	10	100	100	10.0	500	1.0	5.0	50
UF1003	300	10	100	100	10.0	500	1.3	5.0	50
UF1004	400	10	100	100	10.0	500	1.3	5.0	50
UF1006	600	10	100	100	10.0	500	1.7	5.0	100
UF1008	800	10	100	100	10.0	500	1.7	5.0	100
UFF10005	50	10	100	100	10.0	500	1.0	5.0	50
UFF1001	100	10	100	100	10.0	500	1.0	5.0	50
UFF1002	200	10	100	100	10.0	500	1.0	5.0	50
UFF1003	300	10	100	100	10.0	500	1.3	5.0	50
UFF1004	400	10	100	100	10.0	500	1.3	5.0	50
UFF1006	600	10	100	100	10.0	500	1.7	5.0	100
UFF1008	800	10	100	100	10.0	500	1.7	5.0	100

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C



SOFT RECOVERY / FAST SWITCHING RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA		Maximum Reverse Recovery Time
	P.I.V.	I _o at TA		IFSM	IR	VF at I _o		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

SFR101 series. 1.0 AMP. Plastic Case: DO-41. Outline: 2

SFR101	50	1.0	55	30	5.0	1.0	1.3	120
SFR102	100	1.0	55	30	5.0	1.0	1.3	120
SFR103	200	1.0	55	30	5.0	1.0	1.3	120
SFR104	400	1.0	55	30	5.0	1.0	1.3	120
SFR105	600	1.0	55	30	5.0	1.0	1.3	200
SFR106	800	1.0	55	30	5.0	1.0	1.3	350

SFR301 series. 3.0 AMP. Plastic Case: DO-201AD. Outline: 4

SFR301	50	3.0	55	200	10	3.0	1.3	120
SFR302	100	3.0	55	200	10	3.0	1.3	120
SFR303	200	3.0	55	200	10	3.0	1.3	120
SFR304	400	3.0	55	200	10	3.0	1.3	120
SFR305	600	3.0	55	200	10	3.0	1.3	200
SFR306	800	3.0	55	200	10	3.0	1.3	350

SFR600A series. 6.0 AMP. Plastic Case: P-6. Outline: 5

SFR600A	50	6.0	55	300	10	6.0	1.3	120
SFR600B	100	6.0	55	300	10	6.0	1.3	120
SFR600D	200	6.0	55	300	10	6.0	1.3	120
SFR600G	400	6.0	55	300	10	6.0	1.3	120
SFR600J	600	6.0	55	300	10	6.0	1.3	200
SFR600K	800	6.0	55	300	10	6.0	1.3	350



SCHOTTKY BARRIER RECTIFIERS

OPERATING TEMPERATURE RANGE

20V to 45V -65°C to + 125°C

50V to 90V -65°C to + 150°C

STORAGE TEMPERATURE -65°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @ 8.3 ms Superimposed	Maximum Reverse Current @ PRV @ 25°C TA	Maximum Forward Voltage @ 25°C TA	
	PRV	I _o at TA		IFSM	IR	VF at I _o	
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)

1N5817 series. 1 A. Plastic Case: DO-41. Outline: 2

1N5817	20	1.0	90	25	1.0	1.0	0.45
1N5818	30	1.0	90	25	1.0	1.0	0.55
1N5819	40	1.0	90	25	1.0	1.0	0.60

SR102 series. 1 A. Plastic Case: DO-41. Outline: 2

SR102	20	1.0	75	40	1.0	1.0	0.57
SR103	30	1.0	75	40	1.0	1.0	0.57
SR104	40	1.0	75	40	1.0	1.0	0.57
SR105	50	1.0	100	40	1.0	1.0	0.70
SR106	60	1.0	100	40	1.0	1.0	0.70
SR107	70	1.0	100	40	1.0	1.0	0.85
SR108	80	1.0	100	40	1.0	1.0	0.85
SR109	90	1.0	100	40	1.0	1.0	0.85

1N5820 series. 3 A. Plastic Case: DO-201AD. Outline: 4

1N5820	20	3.0	95	80	2.0	3.0	0.475
1N5821	30	3.0	95	80	2.0	3.0	0.500
1N5822	40	3.0	95	80	2.0	3.0	0.525

SR302 series. 3 A. Plastic Case: DO-201AD. Outline: 4

SR302	20	3.0	75	150	2.0	3.0	0.57
SR303	30	3.0	75	150	2.0	3.0	0.57
SR304	40	3.0	75	150	2.0	3.0	0.57
SR305	50	3.0	100	150	2.0	3.0	0.70
SR306	60	3.0	100	150	2.0	3.0	0.70
SR307	70	3.0	100	150	2.0	3.0	0.85
SR308	80	3.0	100	150	2.0	3.0	0.85
SR309	90	3.0	100	150	2.0	3.0	0.85

SR502 series. 5 A. Plastic Case: DO-201AD. Outline: 4

SR502	20	5.0	60	150	1.0	5.0	0.57
SR503	30	5.0	60	150	1.0	5.0	0.57
SR504	40	5.0	60	150	1.0	5.0	0.57
SR505	50	5.0	85	150	1.0	5.0	0.70
SR506	60	5.0	85	150	1.0	5.0	0.70
SR507	70	5.0	85	150	1.0	5.0	0.85
SR508	80	5.0	85	150	1.0	5.0	0.85
SR509	90	5.0	85	150	1.0	5.0	0.85

SR820 Series (20V-60V) 8.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRA820	20	8.0	*90	150	5.0	8.0	0.65
SRA830	30	8.0	*90	150	5.0	8.0	0.65
SRA840	40	8.0	*90	150	5.0	8.0	0.65
SRA850	50	8.0	*90	150	5.0	8.0	0.75
SRA860	60	8.0	*90	150	5.0	8.0	0.75



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @ 25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _R @T _c		V _F	I _F
		A	°C		A	@25°C		
	V _{PK}				mA	mA		

SR1020 / SRF1020 Series (20V-100V) 10.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR1020	20	10	125	150	0.5	15	0.63	10
SR1030	30	10	125	150	0.5	15	0.63	10
SR1035	35	10	125	150	0.5	15	0.63	10
SR1040	40	10	125	150	0.5	15	0.63	10
SR1045	45	10	125	150	0.5	15	0.63	10
SR1050	50	10	135	150	0.5	15	0.80	10
SR1060	60	10	135	150	0.5	15	0.80	10
SR1090	90	10	125	150	0.5	6.0 ★	0.80	10
SR10100	100	10	125	150	0.5	6.0 ★	0.80	10
SRF1020	20	10	125	150	0.5	15	0.63	10
SRF1030	30	10	125	150	0.5	15	0.63	10
SRF1035	35	10	125	150	0.5	15	0.63	10
SRF1040	40	10	125	150	0.5	15	0.63	10
SRF1045	45	10	125	150	0.5	15	0.63	10
SRF1050	50	10	135	150	0.5	15	0.80	10
SRF1060	60	10	135	150	0.5	15	0.80	10
SRF1090	90	10	125	150	0.5	6.0 ★	0.80	10
SRF10100	100	10	125	150	0.5	6.0 ★	0.80	10

T_j of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

★I_R@T_c=25°C and T_c=100°C

SR10H20 / SRF10H20 Series (20V-100V) 10.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR10H20	20	10	150	150	0.10	12	0.63	10
SR10H30	30	10	150	150	0.10	12	0.63	10
SR10H35	35	10	150	150	0.10	12	0.63	10
SR10H40	40	10	150	150	0.10	12	0.63	10
SR10H45	45	10	150	150	0.10	12	0.63	10
SR10H50	50	10	150	150	0.10	12	0.71	10
SR10H60	60	10	150	150	0.10	12	0.71	10
SR10H90	90	10	150	250	0.05	6.0	0.77	10
SR10H100	100	10	150	250	0.05	6.0	0.77	10
SRF10H20	20	10	150	150	0.10	12	0.63	10
SRF10H30	30	10	150	150	0.10	12	0.63	10
SRF10H35	35	10	150	150	0.10	12	0.63	10
SRF10H40	40	10	150	150	0.10	12	0.63	10
SRF10H45	45	10	150	150	0.10	12	0.63	10
SRF10H50	50	10	150	150	0.10	12	0.71	10
SRF10H60	60	10	150	150	0.10	12	0.71	10
SRF10H90	90	10	150	250	0.05	6.0	0.77	10
SRF10H100	100	10	150	250	0.05	6.0	0.77	10

T_j and T_{stg} of -65°C to +175°C

I_{FSM} for 25°C



SR720 / SRF720 Series (20V-60V) 7.5A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR720	20	7.5	125	150	0.3	15	0.63	7.5
SR730	30	7.5	125	150	0.3	15	0.63	7.5
SR735	35	7.5	125	150	0.3	15	0.63	7.5
SR740	40	7.5	125	150	0.3	15	0.63	7.5
SR745	45	7.5	125	150	0.3	15	0.63	7.5
SR750	50	7.5	125	150	0.5	50	0.73	7.5
SR760	60	7.5	125	150	0.5	50	0.73	7.5
SRF720	20	7.5	125	150	0.3	15	0.63	7.5
SRF730	30	7.5	125	150	0.3	15	0.63	7.5
SRF735	35	7.5	125	150	0.3	15	0.63	7.5
SRF740	40	7.5	125	150	0.3	15	0.63	7.5
SRF745	45	7.5	125	150	0.3	15	0.63	7.5
SRF750	50	7.5	125	150	0.5	50	0.73	7.5
SRF760	60	7.5	125	150	0.5	50	0.73	7.5

Tj of -65°C to +150°C
Tstg of -65°C to +175°C
Ifsm for 25°C

SR7H20 / SRF7H20 Series (20V-60V) 7.5A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR7H20	20	7.5	150	150	0.05	10	0.63	7.5
SR7H30	30	7.5	150	150	0.05	10	0.63	7.5
SR7H35	35	7.5	150	150	0.05	10	0.63	7.5
SR7H40	40	7.5	150	150	0.05	10	0.63	7.5
SR7H45	45	7.5	150	150	0.05	10	0.63	7.5
SR7H50	50	7.5	150	150	0.05	10	0.73	7.5
SR7H60	60	7.5	150	150	0.05	10	0.73	7.5
SRF7H20	20	7.5	150	150	0.05	10	0.63	7.5
SRF7H30	30	7.5	150	150	0.05	10	0.63	7.5
SRF7H35	35	7.5	150	150	0.05	10	0.63	7.5
SRF7H40	40	7.5	150	150	0.05	10	0.63	7.5
SRF7H45	45	7.5	150	150	0.05	10	0.63	7.5
SRF7H50	50	7.5	150	150	0.05	10	0.73	7.5
SRF7H60	60	7.5	150	150	0.05	10	0.73	7.5

Tj and Tstg of -65°C to +175°C
Ifsm for 25°C

SRL10L25 / SRLF10L25 Series (25V-30V) 10.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL10L25	25	10	105	200	0.8	260	0.46	10
SRL10L30	30	10	105	200	1.0	100	0.52	10
SRLF10L25	25	10	105	200	0.8	260	0.46	10
SRLF10L30	30	10	105	200	1.0	100	0.52	10

Tj and Tstg of -65°C to +150°C
Ifsm for 25°C

SRL1020 / SRLF1020 Series (20V-40V) 10.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL1020	20	10	105	200	1.0	50 *	0.55	10
SRL1030	30	10	105	200	1.0	50 *	0.55	10
SRL1040	40	10	105	200	1.0	50 *	0.55	10
SRLF1020	20	10	105	200	1.0	50 *	0.55	10
SRLF1030	30	10	105	200	1.0	50 *	0.55	10
SRLF1040	40	10	105	200	1.0	50 *	0.55	10

Tj and Tstg of -65°C to +125°C
★IR@Tc=25°C and Tc=100°C
Ifsm for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _R @T _c		V _F	I _F
	V _{PK}	A	°C		@25°C	@125°C		

SR1620 / SRF1620 Series (20V-60V) 16.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR1620	20	16	125	150	0.5	40	0.63	16
SR1630	30	16	125	150	0.5	40	0.63	16
SR1635	35	16	125	150	0.5	40	0.63	16
SR1640	40	16	125	150	0.5	40	0.63	16
SR1645	45	16	125	150	0.5	40	0.63	16
SR1650	50	16	125	150	1.0	50	0.75	16
SR1660	60	16	125	150	1.0	50	0.75	16
SRF1620	20	16	125	150	0.5	40	0.63	16
SRF1630	30	16	125	150	0.5	40	0.63	16
SRF1635	35	16	125	150	0.5	40	0.63	16
SRF1640	40	16	125	150	0.5	40	0.63	16
SRF1645	45	16	125	150	0.5	40	0.63	16
SRF1650	50	16	125	150	1.0	50	0.75	16
SRF1660	60	16	125	150	1.0	50	0.75	16

T_j of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SRL20L15 / SRLF20L15 Series (15V) 20.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL20L15	15	20	105	340	6.0	500 ★	0.41	20
SRLF20L15	15	20	105	340	6.0	500 ★	0.41	20

T_j of -65°C to +125°C

T_{stg} of -65°C to +150°C

★I_R@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SRL1020 / SRLF1020 Series (20V-40V) 10.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL1020	20	10	105	110	0.5	50	0.55	5.0
SRL1030	30	10	105	110	0.5	50	0.55	5.0
SRL1040	40	10	105	110	0.5	50	0.55	5.0
SRLF1020	20	10	105	110	0.5	50	0.55	5.0
SRLF1030	30	10	105	110	0.5	50	0.55	5.0
SRLF1040	40	10	105	110	0.5	50	0.55	5.0

T_j and T_{stg} of -40°C to +125°C

I_{FSM} for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _r @T _c		V _F	I _F
		A	°C		A	@25°C		
	V _{PK}			A	mA	mA		

SRL2020 / SRLF2020 Series (20V-40V) 20.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL2020	20	20	105	175	1.0	50 ★	0.60	10
SRL2030	30	20	105	175	1.0	50 ★	0.60	10
SRL2040	40	20	105	175	1.0	50 ★	0.60	10
SRLF2020	20	20	105	175	1.0	50 ★	0.60	10
SRLF2030	30	20	105	175	1.0	50 ★	0.60	10
SRLF2040	40	20	105	175	1.0	50 ★	0.60	10

T_j of -40°C to +150°C

T_{stg} of -40°C to +175°C

★I_r@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SR2020 / SRF2020 Series (20V-60V) 20.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR2020	20	20	125	150	0.5	50	0.63	10
SR2030	30	20	125	150	0.5	50	0.63	10
SR2035	35	20	125	150	0.5	50	0.63	10
SR2040	40	20	125	150	0.5	50	0.63	10
SR2045	45	20	125	150	0.5	50	0.63	10
SR2050	50	20	125	150	0.5	50	0.71	10
SR2060	60	20	125	150	0.5	50	0.71	10
SRF2020	20	20	125	150	0.5	50	0.63	10
SRF2030	30	20	125	150	0.5	50	0.63	10
SRF2035	35	20	125	150	0.5	50	0.63	10
SRF2040	40	20	125	150	0.5	50	0.63	10
SRF2045	45	20	125	150	0.5	50	0.63	10
SRF2050	50	20	125	150	0.5	50	0.71	10
SRF2060	60	20	125	150	0.5	50	0.71	10

T_j of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SR2090 / SRF2090 Series (90V-100V) 20.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR2090	90	20	125	150	0.5	50	0.80	10
SR20100	100	20	125	150	0.5	50	0.80	10
SRF2090	90	20	125	150	0.5	50	0.80	10
SRF20100	100	20	125	150	0.5	50	0.80	10

T_j of -40°C to +150°C

T_{stg} of -40°C to +175°C

I_{FSM} for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _r @T _c		V _F	I _F
		V _{PK}	A		°C	@25°C		
				A	mA	mA	V	A

SR20H20 / SRF20H20 Series (20V-100V) 20.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR20H20	20	20	150	150	0.1	12	0.63	10
SR20H30	30	20	150	150	0.1	12	0.63	10
SR20H35	35	20	150	150	0.1	12	0.63	10
SR20H40	40	20	150	150	0.1	12	0.63	10
SR20H45	45	20	150	150	0.1	12	0.63	10
SR20H50	50	20	150	150	0.1	12	0.71	10
SR20H60	60	20	150	150	0.1	12	0.71	10
SR20H90	90	20	150	150	0.1	12	0.77	10
SR20H100	100	20	150	150	0.1	12	0.77	10
SRF20H20	20	20	150	150	0.1	12	0.63	10
SRF20H30	30	20	150	150	0.1	12	0.63	10
SRF20H35	35	20	150	150	0.1	12	0.63	10
SRF20H40	40	20	150	150	0.1	12	0.63	10
SRF20H45	45	20	150	150	0.1	12	0.63	10
SRF20H50	50	20	150	150	0.1	12	0.71	10
SRF20H60	60	20	150	150	0.1	12	0.71	10
SRF20H90	90	20	150	150	0.1	12	0.77	10
SRF20H100	100	20	150	150	0.1	12	0.77	10

T_j and T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SRL25L20 / SRLF25L20 Series (20V-100V) 25.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SRL25L20	20	25	105	180	0.9	50 ★	0.49	12.5
SRL25L25	25	25	105	180	0.9	50 ★	0.49	12.5
SRL25L30	30	25	105	180	0.9	50 ★	0.49	12.5
SRLF25L20	20	25	105	180	0.9	50 ★	0.49	12.5
SRLF25L25	25	25	105	180	0.9	50 ★	0.49	12.5
SRLF25L30	30	25	105	180	0.9	50 ★	0.49	12.5

T_j and T_{stg} of -40°C to +125°C

★I_r@T_c=25°C and T_c=100°C

SR2520 / SRF2520 Series (20V-60V) 25.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR2520	20	25	125	150	0.5	50	0.63	12.5
SR2530	30	25	125	150	0.5	50	0.63	12.5
SR2535	35	25	125	150	0.5	50	0.63	12.5
SR2540	40	25	125	150	0.5	50	0.63	12.5
SR2545	45	25	125	150	0.5	50	0.63	12.5
SR2550	50	25	125	150	1.0	50	0.75	12.5
SR2560	60	25	125	150	1.0	50	0.75	12.5
SRF2520	20	25	125	150	0.5	50	0.63	12.5
SRF2530	30	25	125	150	0.5	50	0.63	12.5
SRF2535	35	25	125	150	0.5	50	0.63	12.5
SRF2540	40	25	125	150	0.5	50	0.63	12.5
SRF2545	45	25	125	150	0.5	50	0.63	12.5
SRF2550	50	25	125	150	1.0	50	0.75	12.5
SRF2560	60	25	125	150	1.0	50	0.75	12.5

T_j of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _r @T _c		V _F	I _F
		A	°C		A	@25°C		

SR25H20 / SRF25H20 Series (20V-60V) 25.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR25H20	20	25	150	150	0.2	20	0.64	12.5
SR25H30	30	25	150	150	0.2	20	0.64	12.5
SR25H35	35	25	150	150	0.2	20	0.64	12.5
SR25H40	40	25	150	150	0.2	20	0.64	12.5
SR25H45	45	25	150	150	0.2	20	0.64	12.5
SR25H50	50	25	150	150	0.2	20	0.70	12.5
SR25H60	60	25	150	150	0.2	20	0.70	12.5
SRF25H20	20	25	150	150	0.2	20	0.64	12.5
SRF25H30	30	25	150	150	0.2	20	0.64	12.5
SRF25H35	35	25	150	150	0.2	20	0.64	12.5
SRF25H40	40	25	150	150	0.2	20	0.64	12.5
SRF25H45	45	25	150	150	0.2	20	0.64	12.5
SRF25H50	50	25	150	150	0.2	20	0.70	12.5
SRF25H60	60	25	150	150	0.2	20	0.70	12.5

T_J and T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SR3020 / SRF3020 Series (20V-60V) 30.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR3020	20	30	105	200	1.0	60	0.65	15
SR3030	30	30	105	200	1.0	60	0.65	15
SR3035	35	30	105	200	1.0	60	0.65	15
SR3040	40	30	105	200	1.0	60	0.65	15
SR3045	45	30	105	200	1.0	60	0.65	15
SR3050	50	30	105	200	1.0	60	0.80	15
SR3060	60	30	105	200	1.0	60	0.80	15
SRF3020	20	30	105	200	1.0	60	0.65	15
SRF3030	30	30	105	200	1.0	60	0.65	15
SRF3035	35	30	105	200	1.0	60	0.65	15
SRF3040	40	30	105	200	1.0	60	0.65	15
SRF3045	45	30	105	200	1.0	60	0.65	15
SRF3050	50	30	105	200	1.0	60	0.80	15
SRF3060	60	30	105	200	1.0	60	0.80	15

T_J of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SR30H20 / SRF30H20 Series (20V-60V) 30.0A/ Case: TO-220AB/AC & ITO-220AB/AC Outline : 15/16/17/18

SR30H20	20	30	150	150	0.2	30	0.62	15
SR30H30	30	30	150	150	0.2	30	0.62	15
SR30H35	35	30	150	150	0.2	30	0.62	15
SR30H40	40	30	150	150	0.2	30	0.62	15
SR30H45	45	30	150	150	0.2	30	0.62	15
SR30H50	50	30	150	150	0.2	30	0.68	15
SR30H60	60	30	150	150	0.2	30	0.68	15
SRF30H20	20	30	150	150	0.2	30	0.62	15
SRF30H30	30	30	150	150	0.2	30	0.62	15
SRF30H35	35	30	150	150	0.2	30	0.62	15
SRF30H40	40	30	150	150	0.2	30	0.62	15
SRF30H45	45	30	150	150	0.2	30	0.62	15
SRF30H50	50	30	150	150	0.2	30	0.68	15
SRF30H60	60	30	150	150	0.2	30	0.68	15

T_J and T_{stg} of -65°C to +175°C

I_{FSM} for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _c		I _{FSM}	I _R @T _c		V _F	I _F
	V _{PK}	A	°C		@25°C	@125°C		

SRL2020PT Series (20V-40V) 20.0A/ Case: TO-249AD (TO-3P) Outline : 19

SRL2020PT	20	20	105	250	1.0	50 *	0.60	10
SRL2030PT	30	20	105	250	1.0	50 *	0.60	10
SRL2040PT	40	20	105	250	1.0	50 *	0.60	10

T_j and T_{stg} of -40°C to +125°C

*I_R@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SRL3020PT Series (20V-40V) 30.0A/ Case: TO-249AD (TO-3P) Outline : 19

SRL3020PT	20	30	105	275	1.0	75 *	0.55	15
SRL3030PT	30	30	105	275	1.0	75 *	0.55	15
SRL3040PT	40	30	105	275	1.0	75 *	0.55	15

T_j and T_{stg} of -40°C to +125°C

*I_R@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SR3020PT Series (20V-60V) 30.0A/ Case: TO-249AD (TO-3P) Outline : 19

SR3020PT	20	30	105	200	1.0	60	0.63	15
SR3030PT	30	30	105	200	1.0	60	0.63	15
SR3035PT	35	30	105	200	1.0	60	0.63	15
SR3040PT	40	30	105	200	1.0	60	0.63	15
SR3045PT	45	30	105	200	1.0	60	0.63	15
SR3050PT	50	30	105	200	5.0	100	0.70	15
SR3060PT	60	30	105	200	5.0	100	0.70	15

T_j of -65°C to +150°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C

SR30H20PT Series (20V-100V) 30.0A/ Case: TO-249AD (TO-3P) Outline : 19

SR30H20PT	20	30	150	200	0.3	25	0.63	15
SR30H30PT	30	30	150	200	0.3	25	0.63	15
SR30H35PT	35	30	150	200	0.3	25	0.63	15
SR30H40PT	40	30	150	200	0.3	25	0.63	15
SR30H45PT	45	30	150	200	0.3	25	0.63	15
SR30H50PT	50	30	150	200	0.3	25	0.70	15
SR30H60PT	60	30	150	200	0.3	25	0.70	15
SR30H90PT	90	30	150	265	0.05	6.0	0.82	15
SR30H100PT	100	30	150	265	0.05	6.0	0.82	15

T_j and T_{stg} of -65°C to +175°C

I_{FSM} for 25°C



SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _{o@Tc}		I _{FSM}	I _{r@Tc}		V _F	I _F
	V _{PK}	A	°C	A	@25°C mA	@125°C mA	V	A

SRL40L15PT Series (15V) 40.0A/ Case: TO-249AD (TO-3P) Outline : 19

SRL40L15PT	15	40	105	340	6.0	500 ★	20	0.41
------------	----	----	-----	-----	-----	-------	----	------

T_j and T_{stg} of -65°C to +150°C

★I_r@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SRL4020PT Series (20V-60V) 40.0A/ Case: TO-249AD (TO-3P) Outline : 19

SRL4020PT	20	40	105	400	10	100 ★	0.58	20
SRL4030PT	30	40	105	400	10	100 ★	0.58	20
SRL4035PT	35	40	105	400	10	100 ★	0.58	20
SRL4040PT	40	40	105	400	10	100 ★	0.58	20
SRL4045PT	45	40	105	400	10	100 ★	0.58	20
SRL4050PT	50	40	105	400	10	100 ★	0.58	20
SRL4060PT	60	40	105	400	10	100 ★	0.58	20

T_j of -40°C to +125°C

★I_r@T_c=25°C and T_c=100°C

I_{FSM} for 25°C

SR4020PT Series (20V-60V) 40.0A/ Case: TO-249AD (TO-3P) Outline : 19

SR4020PT	20	40	125	400	10	100	0.63	20
SR4030PT	30	40	125	400	10	100	0.63	20
SR4035PT	35	40	125	400	10	100	0.63	20
SR4040PT	40	40	125	400	10	100	0.63	20
SR4045PT	45	40	125	400	10	100	0.63	20
SR4050PT	50	40	125	400	10	100	0.72	20
SR4060PT	60	40	125	400	10	100	0.72	20

T_j of -65°C to +150°C

I_{FSM} for 25°C

SR40H20PT Series (20V-60V) 40.0A/ Case: TO-249AD (TO-3P) Outline : 19

SR40H20PT	20	40	150	400	0.3	25	0.63	20
SR40H30PT	30	40	150	400	0.3	25	0.63	20
SR40H35PT	35	40	150	400	0.3	25	0.63	20
SR40H40PT	40	40	150	400	0.3	25	0.63	20
SR40H45PT	45	40	150	400	0.3	25	0.63	20
SR40H50PT	50	40	150	400	0.3	25	0.69	20
SR40H60PT	60	40	150	400	0.3	25	0.69	20

T_j of -65°C to +175°C

I_{FSM} for 25°C



HIGH VOLTAGE RECTIFIERS

OPERATING STORAGE TEMPERATURE -65°C to +175°C

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at T _A =25°C	Max. Forward Voltage Drop at T _A =25°C		Max. Reverse Recovery Time
	V _{RRM}	I _{F(AV)} at T _A		I _{FSM}	I _R	V _F at I _{F(AV)}		t _{rr}
	(V)	(A)	(°C)	(A)	(uA)	(A)	(V)	(ns)

HVR1.3KV-HVR5.0KV. 0.5/0.2 AMP. Plastic Case:DO-41/DO-15 Outline:2/3(Fast Recovery Available)

PHOTO130	1300	0.5	50	30	5.0	0.5	2.0	-
PHOTO150	1500	0.5	50	30	5.0	0.5	3.0	-
PHOTO180	1800	0.5	50	30	5.0	0.5	3.0	-
PHOTO200	2000	0.5	50	30	5.0	0.5	4.5	-
PHOTO250	2500	0.5	50	30	5.0	0.2	4.5	-
PHOTO300	3000	0.5	50	30	5.0	0.2	6.0	-
PHOTO500	5000	0.5	50	30	5.0	0.2	8.0	-

HVR6KV-HVR24KV. 5.0 mA. Plastic Case:HVR Outline:18

HVR6000	6000	5.0mA	25	0.5	2.0	10mA	17.5	100
HVR8000	8000	5.0mA	25	0.5	2.0	10mA	25.0	100
HVR10000	10000	5.0mA	25	0.5	2.0	10mA	30.0	100
HVR12000	12000	5.0mA	25	0.5	2.0	10mA	37.5	100
HVR14000	14000	5.0mA	25	0.5	2.0	10mA	42.5	100
HVR16000	16000	5.0mA	25	0.5	2.0	10mA	50.0	100
HVR18000	18000	5.0mA	25	0.5	2.0	10mA	55.0	100
HVR20000	20000	5.0mA	25	0.5	2.0	10mA	62.5	100
HVR22000	22000	5.0mA	25	0.5	2.0	10mA	67.5	100
HVR24000	24000	5.0mA	25	0.5	2.0	10mA	75.0	100

30ns 10-1000 mA. Package: Hermefic Outline:12

M50FF3	5000	40 mA	55	2.0	0.10	40 mA	12.5	30
M100FF3	10000	20 mA	55	1.0	0.10	20 mA	25.0	30
M160FF3	16000	10 mA	55	0.5	0.10	10 mA	50.0	30
X20FF3	2000	420 mA	55	16	1.0	420 mA	7.5	30
X50FF3	5000	150 mA	55	10	1.0	150 mA	12.5	30
X100FF3	10000	80 mA	55	2	1.0	80 mA	25.0	30
X150FF3	15000	50 mA	55	1.6	1.0	50 mA	37.5	30
Z20FF3	2000	1000 mA	55	66	1.0	750 mA	6.0	30
Z50FF3	5000	360 mA	55	22	1.0	360 mA	12.5	30
Z100FF3	10000	180 mA	55	11	1.0	180 mA	25.0	30

50ns 10-1000 mA. Package: Hermefic Outline:12

M50FF5	5000	40 mA	55	2.0	0.10	40 mA	12.5	50
M100FF5	10000	20 mA	55	1.0	0.10	20 mA	25.0	50
M160FF5	16000	10 mA	55	0.5	0.10	10 mA	50.0	50
X20FF5	2000	420 mA	55	16	1.0	420 mA	7.5	50
X50FF5	5000	150 mA	55	10	1.0	150 mA	12.5	50
X100FF5	10000	80 mA	55	2	1.0	80 mA	25.0	50
X150FF5	15000	50 mA	55	1.6	1.0	50 mA	37.5	50
Z20FF5	2000	1000 mA	55	66	1.0	750 mA	6.0	50
Z50FF5	5000	360 mA	55	22	1.0	360 mA	12.5	50
Z100FF5	10000	180 mA	55	11	1.0	180 mA	25.0	50



HIGH VOLTAGE RECTIFIERS

OPERATING STORAGE TEMPERATURE -65°C to +175°C

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A = 25^\circ\text{C}$	Max. Forward Voltage Drop at $T_A = 25^\circ\text{C}$		Max. Reverse Recovery Time
	VRRM	I _F (AV) at T _A		I _{FSM}	I _R	V _F at I _F (AV)		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

70ns. 0.025~2.0A. Package: Hermetic. Outline: 13

1N6512	1500	2.0	55	100	1.0	2.0	3.5	70
1N6513	2000	2.0	55	100	1.0	2.0	3.5	70
1N6514	2500	1.5	55	60	1.0	1.5	6.0	70
1N6515	3000	1.5	55	60	1.0	1.5	6.0	70
1N6516	4000	1.0	55	40	1.0	1.0	8.0	70
1N6517	5000	1.0	55	40	1.0	1.0	8.0	70
1N6518	7500	.5	55	25	1.0	0.5	13.0	70
1N6519	10000	.5	55	25	1.0	0.5	13.0	70
1N6520	1500.5	.5	55	25	.5	.50	3.0	70
1N6521	2000	.5	55	25	.5	.50	3.0	70
1N6522	2500	.25	55	15	.5	.25	5.0	70
1N6523	3000	.25	55	15	.5	.25	5.0	70
1N6524	4000	.15	55	10	.5	.15	7.0	70
1N6525	5000	.15	55	10	.5	.15	7.0	70
1N6526	7500	.10	55	5	.5	.10	12	70
1N6527	10000	.10	55	5	.5	.10	12	70
1N6528	1500	.25	55	10	.1	.025	3.0	70
1N6529	2000	.25	55	10	.1	.025	3.0	70
1N6530	2500	.10	55	8	.1	.025	7.0	70
1N6531	3000	.10	55	8	.1	.025	7.0	70
1N6532	4000	.05	55	4	.1	.025	9.0	70
1N6533	5000	.05	55	4	.1	.025	9.0	70
1N6534	7500	.025	55	2	.1	.025	13.0	70
1N6535	10000	.025	55	2	.1	.025	13.0	70

LOW VOLTAGE RECTIFIERS

OPERATING STORAGE TEMPERATURE -65°C to +175°C

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A = 25^\circ\text{C}$	Max. Forward Voltage Drop at $T_A = 25^\circ\text{C}$		Max. Reverse Recovery Time
	VRRM	I _F (AV) at T _A		I _{FSM}	I _R	V _F at I _F (AV)		t _{rr}
	(V)	(A)	(°C)	(A)	(μA)	(A)	(V)	(nS)

30~50ns. 0.5~2.25A. Package: Hermetic. Outline: 14

X06FF3	600	0.60	55	16	1.0	0.60	2.5	30
X10FF3	1000	0.50	55	13	1.0	0.50	3.0	30
X06FF5	600	1.0	55	16	1.0	0.60	2.5	50
X10FF5	1000	0.75	55	13	1.0	0.75	2.0	50
Z06FF3	600	2.0	55	62	1.0	2.0	2.5	30
Z10FF3	1000	1.5	55	50	1.0	1.5	3.0	30
Z06FF5	600	2.0	55	62	1.0	2.0	2.5	50
Z10FF5	1000	2.25	55	77	1.0	2.2	2.0	50



HIGH VOLTAGE HIGH CURRENT ASSEMBLY RECTIFIERS

OPERATING AND STORAGE TEMPERATURE -20°C to $+135^{\circ}\text{C}$

TYPE	Peak Inverse Voltage	Average Rectified Current		Surge Forward Current	Max. Reverse Current at $T_A=25^{\circ}\text{C}$	Max. Forward Voltage Drop at $T_A=25^{\circ}\text{C}$	
	V_{RRM}	$I_{F(AV)}$ at T_A		I_{FSM}	I_R	V_F at $I_{F(AV)}$	
	(V)	mA	($^{\circ}\text{C}$)	(A)	(μA)	(A)	(V)

HV Series. 350 mA. Plastic Case:HV. Outline:9

HV5	5000	350	50	50	5.0	0.35	8.0
HV8	8000	350	50	50	5.0	0.35	13.5
HV10	10000	350	50	50	5.0	0.35	13.5
HV12	12000	350	50	50	5.0	0.35	13.5
HV14	14000	350	50	50	5.0	0.35	14.0
HV15	15000	350	50	50	5.0	0.35	14.0

HC Series. 1000-500 mA. Plastic Case:HC. Outline:10

HC5	5000	1000	60	50	5.0	0.50	13.0
HC8	8000	750	60	50	5.0	0.50	13.0
HC10	10000	700	60	50	5.0	0.50	13.0
HC12	12000	650	60	50	5.0	0.50	13.0
HC15	15000	500	60	50	5.0	0.50	13.0

HVP Series. 750 mA. Plastic Case: HVP. Outline: 11

HVP5	5000	750	60	50	5.0	0.75	14.0
HVP8	8000	750	60	50	5.0	0.75	14.0
HVP10	10000	750	60	50	5.0	0.75	14.0
HVP12	12000	750	60	50	5.0	0.75	14.0
HVP14	14000	750	60	50	5.0	0.75	14.0
HVP15	15000	750	60	50	5.0	0.75	14.0
HVP16	16000	750	60	50	5.0	0.75	14.0



BRIDGE RECTIFIERS

STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

B05S Series (50V-1000V) 0.5A / Case : MDF Outline : 20

B005S	50	0.5	40	30	5.0	0.5	1.1
B01S	100	0.5	40	30	5.0	0.5	1.1
B02S	200	0.5	40	30	5.0	0.5	1.1
B04S	400	0.5	40	30	5.0	0.5	1.1
B06S	600	0.5	40	30	5.0	0.5	1.1
B08S	800	0.5	40	30	5.0	0.5	1.1
B10S	1000	0.5	40	30	5.0	0.5	1.1

DF005S Series (50V-1000V) 1.0A / Case : DFS Outline : 21

DF005S	50	1.0	40	30	10	1.0	1.1
DF01S	100	1.0	40	30	10	1.0	1.1
DF02S	200	1.0	40	30	10	1.0	1.1
DF04S	400	1.0	40	30	10	1.0	1.1
DF06S	600	1.0	40	30	10	1.0	1.1
DF08S	800	1.0	40	30	10	1.0	1.1
DF10S	1000	1.0	40	30	10	1.0	1.1

DF151S Series (50V-1000V) 1.5A / Case : DFS Outline : 21

DF151S	50	1.5	40	50	10	1.5	1.2
DF152S	100	1.5	40	50	10	1.5	1.2
DF153S	200	1.5	40	50	10	1.5	1.2
DF154S	400	1.5	40	50	10	1.5	1.2
DF155S	600	1.5	40	50	10	1.5	1.2
DF156S	800	1.5	40	50	10	1.5	1.2
DF157S	1000	1.5	40	50	10	1.5	1.2

DF005 Series (50V-1000V) 1.0A / Case : DF Outline : 22

DF005	50	1.0	40	50	10	1.0	1.1
DF01	100	1.0	40	50	10	1.0	1.1
DF02	200	1.0	40	50	10	1.0	1.1
DF04	400	1.0	40	50	10	1.0	1.1
DF06	600	1.0	40	50	10	1.0	1.1
DF08	800	1.0	40	50	10	1.0	1.1
DF10	1000	1.0	40	50	10	1.0	1.1

DF151 Series (50V-1000V) 1.5A / Case : DF Outline : 22

DF151	50	1.5	40	60	10	1.5	1.2
DF152	100	1.5	40	60	10	1.5	1.2
DF153	200	1.5	40	60	10	1.5	1.2
DF154	400	1.5	40	60	10	1.5	1.2
DF155	600	1.5	40	60	10	1.5	1.2
DF156	800	1.5	40	60	10	1.5	1.2
DF157	1000	1.5	40	60	10	1.5	1.2



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Halt-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

RB151 Series (50V-1000V) 1.5A / Case : RB-15 Outline : 23

Part No.	PRV (V _{PK})	A _{AV}	T _A (°C)	I _{FM} (Surge) (A _{PK})	I _R (μA _{dc})	I _{FM} (A _{PK})	V _{FM} (V _{PK})
RB151	50	1.5	25	50	10	1.5	1.05
RB152	100	1.5	25	50	10	1.5	1.05
RB153	200	1.5	25	50	10	1.5	1.05
RB154	400	1.5	25	50	10	1.5	1.05
RB155	600	1.5	25	50	10	1.5	1.05
RB156	800	1.5	25	50	10	1.5	1.05
RB157	1000	1.5	25	50	10	1.5	1.05

W005 Series (50V-1000V) 1.5A / Case : WOB Outline : 24

Part No.	PRV (V _{PK})	A _{AV}	T _A (°C)	I _{FM} (Surge) (A _{PK})	I _R (μA _{dc})	I _{FM} (A _{PK})	V _{FM} (V _{PK})
W005M	50	1.5	25	50	10	1.5	1.05
W01M	100	1.5	25	50	10	1.5	1.05
W02M	200	1.5	25	50	10	1.5	1.05
W04M	400	1.5	25	50	10	1.5	1.05
W06M	600	1.5	25	50	10	1.5	1.05
W08M	800	1.5	25	50	10	1.5	1.05
W10M	1000	1.5	25	50	10	1.5	1.05

RC201 / 2W01 Series (50V-1000V) 2.0A / Case : RC-2 Outline : 24

Part No.	PRV (V _{PK})	A _{AV}	T _A (°C)	I _{FM} (Surge) (A _{PK})	I _R (μA _{dc})	I _{FM} (A _{PK})	V _{FM} (V _{PK})	
RC201	2W01	50	2.0	25	50	10	2.0	1.1
RC202	2W02	100	2.0	25	50	10	2.0	1.1
RC203	2W03	200	2.0	25	50	10	2.0	1.1
RC204	2W04	400	2.0	25	50	10	2.0	1.1
RC205	2W05	600	2.0	25	50	10	2.0	1.1
RC206	2W06	800	2.0	25	50	10	2.0	1.1
RC207	2W07	1000	2.0	25	50	10	2.0	1.1

RS101 Series (50V-1000V) 1.0A / Case : RS-1 Outline : 25

Part No.	PRV (V _{PK})	A _{AV}	T _A (°C)	I _{FM} (Surge) (A _{PK})	I _R (μA _{dc})	I _{FM} (A _{PK})	V _{FM} (V _{PK})
RS101	50	1.0	50	30	10	1.0	1.0
RS102	100	1.0	50	30	10	1.0	1.0
RS103	200	1.0	50	30	10	1.0	1.0
RS104	400	1.0	50	30	10	1.0	1.0
RS105	600	1.0	50	30	10	1.0	1.0
RS106	800	1.0	50	30	10	1.0	1.0
RS107	1000	1.0	50	30	10	1.0	1.0

KBJ2A Series (50V-1000V) 2.0A / Case : KBJ2 Outline : 26

Part No.	PRV (V _{PK})	A _{AV}	T _A (°C)	I _{FM} (Surge) (A _{PK})	I _R (μA _{dc})	I _{FM} (A _{PK})	V _{FM} (V _{PK})
KBJ2A	50	2.0	100	50	10	2.0	1.1
KBJ2B	100	2.0	100	50	10	2.0	1.1
KBJ2D	200	2.0	100	50	10	2.0	1.1
KBJ2G	400	2.0	100	50	10	2.0	1.1
KBJ2J	600	2.0	100	50	10	2.0	1.1
KBJ2K	800	2.0	100	50	10	2.0	1.1
KBJ2M	1000	2.0	100	50	10	2.0	1.1



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Halt-Wave Resisitive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

GBP /KBP /TBP005 Series (50V-1000V) 2.0A / Case : KBP/TBP/GBP Outline : 27/28/29

GBU4005	50	4.0	50	150	10	4.0	1.0
GBU401	100	4.0	50	150	10	4.0	1.0
GBU402	200	4.0	50	150	10	4.0	1.0
GBU404	400	4.0	50	150	10	4.0	1.0
GBU406	600	4.0	50	150	10	4.0	1.0
GBU408	800	4.0	50	150	10	4.0	1.0
GBU410	1000	4.0	50	150	10	4.0	1.0

GBL005 Series (50V-1000V) 4.0A / Case : GBL Outline : 30

RS501	50	5.0	50	250	10	5.0	1.1
RS502	100	5.0	50	250	10	5.0	1.1
RS503	200	5.0	50	250	10	5.0	1.1
RS504	400	5.0	50	250	10	5.0	1.1
RS505	600	5.0	50	250	10	5.0	1.1
RS506	800	5.0	50	250	10	5.0	1.1
RS507	1000	5.0	50	250	10	5.0	1.1
B40C5000/3300	100	5.0	50	250	10	5.0	1.1
B80C5000/3300	200	5.0	50	250	10	5.0	1.1
B125C5000/3300	300	5.0	50	250	10	5.0	1.1
B250C5000/3300	600	5.0	50	250	10	5.0	1.1
B380C5000/3300	900	5.0	50	250	10	5.0	1.1

KBJ4A Series (50V-1000V) 4.0A / Case : KBJ Outline : 31

KBJ6A	50	6.0	50	170	10	6.0	1.05
KBJ6B	100	6.0	50	170	10	6.0	1.05
KBJ6D	200	6.0	50	170	10	6.0	1.05
KBJ6G	400	6.0	50	170	10	6.0	1.05
KBJ6J	600	6.0	50	170	10	6.0	1.05
KBJ6K	800	6.0	50	170	10	6.0	1.05
KBJ6M	1000	6.0	50	170	10	6.0	1.05

RS401L / KBL005 / TBL005 Series (50V-1000V) 4.0A / Case : KBL/RS4L/TBL Outline : 32/33

RS601/GBU6005	50	6.0	*50	250	10	6.0	1.0
RS602/GBU601	100	6.0	*50	250	10	6.0	1.0
RS603/GBU602	200	6.0	*50	250	10	6.0	1.0
RS604/GBU604	400	6.0	*50	250	10	6.0	1.0
RS605/GBU606	600	6.0	*50	250	10	6.0	1.0
RS606/GBU608	800	6.0	*50	250	10	6.0	1.0
RS607/GBU610	1000	6.0	*50	250	10	6.0	1.0
KBU6A/TBU6A	50	6.0	*50	250	10	6.0	1.0
KBU6B/TBU6B	100	6.0	*50	250	10	6.0	1.0
KBU6D/TBU6D	200	6.0	*50	250	10	6.0	1.0
KBU6G/TBU6G	400	6.0	*50	250	10	6.0	1.0
KBU6J/TBU6J	600	6.0	*50	250	10	6.0	1.0
KBU6K/TBU6K	800	6.0	*50	250	10	6.0	1.0
KBU6M/TBU6M	1000	6.0	*50	250	10	6.0	1.0



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

GBU005 Series (50V-1000V) 4.0A / Case : GBU Outline : 34

GBU4005	50	4.0	50	150	10	4.0	1.0
GBU401	100	4.0	50	150	10	4.0	1.0
GBU402	200	4.0	50	150	10	4.0	1.0
GBU404	400	4.0	50	150	10	4.0	1.0
GBU406	600	4.0	50	150	10	4.0	1.0
GBU408	800	4.0	50	150	10	4.0	1.0
GBU410	1000	4.0	50	150	10	4.0	1.0

RS501/ B40C Series (50V-1000V) 5.0A / Case : RS-5 Outline : 35

RS501	50	5.0	50	250	10	5.0	1.1
RS502	100	5.0	50	250	10	5.0	1.1
RS503	200	5.0	50	250	10	5.0	1.1
RS504	400	5.0	50	250	10	5.0	1.1
RS505	600	5.0	50	250	10	5.0	1.1
RS506	800	5.0	50	250	10	5.0	1.1
RS507	1000	5.0	50	250	10	5.0	1.1
B40C5000/3300	100	5.0	50	250	10	5.0	1.1
B80C5000/3300	200	5.0	50	250	10	5.0	1.1
B125C5000/3300	300	5.0	50	250	10	5.0	1.1
B250C5000/3300	600	5.0	50	250	10	5.0	1.1
B380C5000/3300	900	5.0	50	250	10	5.0	1.1

KBJ6A Series (50V-1000V) 6.0A / Case : KBJ Outline : 36

KBJ6A	50	6.0	50	170	10	6.0	1.05
KBJ6B	100	6.0	50	170	10	6.0	1.05
KBJ6D	200	6.0	50	170	10	6.0	1.05
KBJ6G	400	6.0	50	170	10	6.0	1.05
KBJ6J	600	6.0	50	170	10	6.0	1.05
KBJ6K	800	6.0	50	170	10	6.0	1.05
KBJ6M	1000	6.0	50	170	10	6.0	1.05

RS601/GBU6005/KBU6A/TBU6A Series (50V-1000V) 6.0A / Case : TBU/GBU Outline : 37/34

RS601/GBU6005	50	6.0	*50	250	10	6.0	1.0
RS602/GBU601	100	6.0	*50	250	10	6.0	1.0
RS603/GBU602	200	6.0	*50	250	10	6.0	1.0
RS604/GBU604	400	6.0	*50	250	10	6.0	1.0
RS605/GBU606	600	6.0	*50	250	10	6.0	1.0
RS606/GBU608	800	6.0	*50	250	10	6.0	1.0
RS607/GBU610	1000	6.0	*50	250	10	6.0	1.0
KBU6A/TBU6A	50	6.0	*50	250	10	6.0	1.0
KBU6B/TBU6B	100	6.0	*50	250	10	6.0	1.0
KBU6D/TBU6D	200	6.0	*50	250	10	6.0	1.0
KBU6G/TBU6G	400	6.0	*50	250	10	6.0	1.0
KBU6J/TBU6J	600	6.0	*50	250	10	6.0	1.0
KBU6K/TBU6K	800	6.0	*50	250	10	6.0	1.0
KBU6M/TBU6M	1000	6.0	*50	250	10	6.0	1.0



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Halt-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μAdc	A _{PK}	V _{PK}

KBJ8A Series (50V-1000V) 8.0A / Case : KBJ Outline : 36

KBJ8A	50	8.0	50	170	10	8.0	1.05
KBJ8B	100	8.0	50	170	10	8.0	1.05
KBJ8D	200	8.0	50	170	10	8.0	1.05
KBJ8G	400	8.0	50	170	10	8.0	1.05
KBJ8J	600	8.0	50	170	10	8.0	1.05
KBJ8K	800	8.0	50	170	10	8.0	1.05
KBJ8M	1000	8.0	50	170	10	8.0	1.05

RS801/GBU8005/KBU8A/TBU8A Series (50V-1000V) 8.0A / Case : TBU/GBU Outline : 37/34

RS801/GBU8005	50	8.0	*50	250	10	8.0	1.0
RS802/GBU801	100	8.0	*50	250	10	8.0	1.0
RS803/GBU802	200	8.0	*50	250	10	8.0	1.0
RS804/GBU804	400	8.0	*50	250	10	8.0	1.0
RS805/GBU806	600	8.0	*50	250	10	8.0	1.0
RS806/GBU808	800	8.0	*50	250	10	8.0	1.0
RS807/GBU810	1000	8.0	*50	250	10	8.0	1.0
KBU8A/TBU8A	50	8.0	*50	250	10	8.0	1.0
KBU8B/TBU8B	100	8.0	*50	250	10	8.0	1.0
KBU8D/TBU8D	200	8.0	*50	250	10	8.0	1.0
KBU8G/TBU8G	400	8.0	*50	250	10	8.0	1.0
KBU8J/TBU8J	600	8.0	*50	250	10	8.0	1.0
KBU8K/TBU8K	800	8.0	*50	250	10	8.0	1.0
KBU8M/TBU8M	1000	8.0	*50	250	10	8.0	1.0

KBJ/GBU10A Series (50V-1000V) 10.0A / Case : KBJ/GBU Outline : 36/34

KBJ10A/GBU10005	50	10	50	250	10	5.0	1.0
KBJ10B/GBU1001	100	10	50	250	10	5.0	1.0
KBJ10D/GBU1002	200	10	50	250	10	5.0	1.0
KBJ10G/GBU1004	400	10	50	250	10	5.0	1.0
KBJ10J/GBU1006	600	10	50	250	10	5.0	1.0
KBJ10K/GBU1008	800	10	50	250	10	5.0	1.0
KBJ10M/GBU1010	1000	10	50	250	10	5.0	1.0

KBU/TBU10A Series (50V-1000V) 10.0A / Case : KBU/TBU Outline : 37

KBU10A/TBU10A	50	10	*50	250	10	5.0	1.05
KBU10B/TBU10B	100	10	*50	250	10	5.0	1.05
KBU10D/TBU10D	200	10	*50	250	10	5.0	1.05
KBU10G/TBU10G	400	10	*50	250	10	5.0	1.05
KBU10J/TBU10J	600	10	*50	250	10	5.0	1.05
KBU10K/TBU10K	800	10	*50	250	10	5.0	1.05
KBU10M/TBU10M	1000	10	*50	250	10	5.0	1.05

KBJ/GBU15A Series (50V-1000V) 15.0A / Case : KBJ/GBU Outline : 36/34

KBJ15A/GBU15005	50	15	50	300	10	7.5	1.05
KBJ15B/GBU1501	100	15	50	300	10	7.5	1.05
KBJ15D/GBU1502	200	15	50	300	10	7.5	1.05
KBJ15G/GBU1504	400	15	50	300	10	7.5	1.05
KBJ15J/GBU1506	600	15	50	300	10	7.5	1.05
KBJ15K/GBU1508	800	15	50	300	10	7.5	1.05
KBJ15M/GBU1510	1000	15	50	300	10	7.5	1.05



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Halt-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μAdc	A _{PK}	V _{PK}

KBU/TBU15A Series (50V-1000V) 15.0A / Case : KBU/TBU Outline : 37

KBU15A/TBU15A	50	15	*50	300	10	7.5	1.05
KBU15B/TBU15B	100	15	*50	300	10	7.5	1.05
KBU15D/TBU15D	200	15	*50	300	10	7.5	1.05
KBU15G/TBU15G	400	15	*50	300	10	7.5	1.05
KBU15J/TBU15J	600	15	*50	300	10	7.5	1.05
KBU15K/TBU15K	800	15	*50	300	10	7.5	1.05
KBU15M/TBU15M	1000	15	*50	300	10	7.5	1.05

KBJ25A/ GBU25005 Series (50V-1000V) 25.0A / Case : KBJ/GBU Outline : 36/34

KBJ25A/GBU25005	50	25	50	400	10	12.5	1.05
KBJ25B/GBU2501	100	25	50	400	10	12.5	1.05
KBJ25D/GBU2502	200	25	50	400	10	12.5	1.05
KBJ25G/GBU2504	400	25	50	400	10	12.5	1.05
KBJ25J/GBU2506	600	25	50	400	10	12.5	1.05
KBJ25K/GBU2508	800	25	50	400	10	12.5	1.05
KBJ25M/GBU2510	1000	25	50	400	10	12.5	1.05

KBU25A/ TBU25A Series (50V-1000V) 25.0A / Case : KBU/TBU Outline : 37

KBU25A/TBU25A	50	25	*50	400	10	12.5	1.0
KBU25B/TBU25B	100	25	*50	400	10	12.5	1.0
KBU25D/TBU25D	200	25	*50	400	10	12.5	1.0
KBU25G/TBU25G	400	25	*50	400	10	12.5	1.0
KBU25J/TBU25J	600	25	*50	400	10	12.5	1.0
KBU25K/TBU25K	800	25	*50	400	10	12.5	1.0
KBU25M/TBU25M	1000	25	*50	400	10	12.5	1.0

BR305/KBPC1005 Series (50V-1000V) 3.0A / Case : BR-3 Outline : 38

BR305/KBPC1005	50	3.0	*75	50	10	1.5	1.0
BR31/KBPC101	100	3.0	*75	50	10	1.5	1.0
BR32/KBPC102	200	3.0	*75	50	10	1.5	1.0
BR34/KBPC104	400	3.0	*75	50	10	1.5	1.0
BR36/KBPC106	600	3.0	*75	50	10	1.5	1.0
BR38/KBPC108	800	3.0	*75	50	10	1.5	1.0
BR310/KBPC110	1000	3.0	*75	50	10	1.5	1.0

BR605/KBPC6005 Series (50V-1000V) 6.0A / Case : BR-6 Outline : 39

BR605/KBPC6005	50	6.0	*75	125	10	3.0	1.0
BR61/KBPC601	100	6.0	*75	125	10	3.0	1.0
BR62/KBPC602	200	6.0	*75	125	10	3.0	1.0
BR64/KBPC604	400	6.0	*75	125	10	3.0	1.0
BR66/KBPC606	600	6.0	*75	125	10	3.0	1.0
BR68/KBPC608	800	6.0	*75	125	10	3.0	1.0
BR610/KBPC610	1000	6.0	*75	125	10	3.0	1.0



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Halt-Wave Resisitive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

BR805/KBPC8005 Series (50V-1000V) 8.0A / Case : BR-8/10 Outline : 40

BR805/KBPC8005	50	8.0	75	125	10	4.0	1.1
BR81/KBPC801	100	8.0	75	125	10	4.0	1.1
BR82/KBPC802	200	8.0	75	125	10	4.0	1.1
BR84/KBPC804	400	8.0	75	125	10	4.0	1.1
BR86/KBPC806	600	8.0	75	125	10	4.0	1.1
BR88/KBPC808	800	8.0	75	125	10	4.0	1.1
BR810/KBPC810	1000	8.0	75	125	10	4.0	1.1

BR1005/KBPC10005 Series (50V-1000V) 10.0A / Case : BR-8/10 Outline : 40

BR1005/KBPC1005	50	10	50	200	10	5.0	1.1
BR101/KBPC101	100	10	50	200	10	5.0	1.1
BR102/KBPC102	200	10	50	200	10	5.0	1.1
BR104/KBPC104	400	10	50	200	10	5.0	1.1
BR106/KBPC106	600	10	50	200	10	5.0	1.1
BR108/KBPC108	800	10	50	200	10	5.0	1.1
BR1010/KBPC1010	1000	10	50	200	10	5.0	1.1

BR1505 Series (50V-1000V) 15.0A / Case : BR-25(W) Outline : 41/42

BR1505	50	15	55	300	10	7.5	1.0
BR151	100	15	55	300	10	7.5	1.0
BR152	200	15	55	300	10	7.5	1.0
BR154	400	15	55	300	10	7.5	1.0
BR156	600	15	55	300	10	7.5	1.0
BR158	800	15	55	300	10	7.5	1.0
BR1510	1000	15	55	300	10	7.5	1.0

NOTE:Suffix "W" for wire lead type.

BR2505 Series (50V-1000V) 25.0A / Case : BR-25(W) Outline : 41/42

BR2505	50	25	55	400	10	12.5	1.1
BR251	100	25	55	400	10	12.5	1.1
BR252	200	25	55	400	10	12.5	1.1
BR254	400	25	55	400	10	12.5	1.1
BR256	600	25	55	400	10	12.5	1.1
BR258	800	25	55	400	10	12.5	1.1
BR2510	1000	25	55	400	10	12.5	1.1

NOTE:Suffix "W" for wire lead type /Another:case26 outline:57

BR3505 Series (50V-1000V) 35.0A / Case : BR-25(W) Outline : 41/42

BR3505	50	35	55	400	10	17.5	1.1
BR351	100	35	55	400	10	17.5	1.1
BR352	200	35	55	400	10	17.5	1.1
BR354	400	35	55	400	10	17.5	1.1
BR356	600	35	55	400	10	17.5	1.1
BR358	800	35	55	400	10	17.5	1.1
BR3510	1000	35	55	400	10	17.5	1.1

NOTE:Suffix "W" for wire lead type /Another:case26 outline:57



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resisitive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _O @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

BR5005 Series (50V-1000V) 50.0A / Case : BR-25(W) Outline : 41/42

BR5005	50	50	55	400	10	25	1.1
BR501	100	50	55	400	10	25	1.1
BR502	200	50	55	400	10	25	1.1
BR504	400	50	55	400	10	25	1.1
BR506	600	50	55	400	10	25	1.1
BR508	800	50	55	400	10	25	1.1
BR5010	1000	50	55	400	10	25	1.1

NOTE: Suffix "W" for wire lead type

MB1505/BKPC15005 Series (50V-1000V) 15A / Case : KBPC/KBPC-W Outline : 43/44

MB1505	50	15	55	300	10	7.5	1.1
MB151	100	15	55	300	10	7.5	1.1
MB152	200	15	55	300	10	7.5	1.1
MB154	400	15	55	300	10	7.5	1.1
MB156	600	15	55	300	10	7.5	1.1
MB158	800	15	55	300	10	7.5	1.1
MB1510	1000	15	55	300	10	7.5	1.1
KBPC15005	50	15	55	300	10	7.5	1.1
KBPC1501	100	15	55	300	10	7.5	1.1
KBPC1502	200	15	55	300	10	7.5	1.1
KBPC1504	400	15	55	300	10	7.5	1.1
KBPC1506	600	15	55	300	10	7.5	1.1
KBPC1508	800	15	55	300	10	7.5	1.1
KBPC1510	1000	15	55	300	10	7.5	1.1

NOTE: Suffix "W" for wire lead type

MB/RA2505/KBPC25005 Series (50V-1000V) 25A / Case : KBPC/KBPC-W Outline : 43/44

MB2505/RA2505	50	25	55	400	10	12.5	1.1
MB251/RA251	100	25	55	400	10	12.5	1.1
MB252/RA252	200	25	55	400	10	12.5	1.1
MB254/RA254	400	25	55	400	10	12.5	1.1
MB256/RA256	600	25	55	400	10	12.5	1.1
MB258/RA258	800	25	55	400	10	12.5	1.1
MB2510/RA2510	1000	25	55	400	10	12.5	1.1
KBPC25005	50	25	55	400	10	12.5	1.1
KBPC2501	100	25	55	400	10	12.5	1.1
KBPC2502	200	25	55	400	10	12.5	1.1
KBPC2504	400	25	55	400	10	12.5	1.1
KBPC2506	600	25	55	400	10	12.5	1.1
KBPC2508	800	25	55	400	10	12.5	1.1
KBPC2510	1000	25	55	400	10	12.5	1.1

NOTE: Suffix "W" for wire lead type



BRIDGE RECTIFIERS

OPERATING TEMPERATURE -55°C to +125°C
STORAGE TEMPERATURE -55°C to +150°C

TYPE	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @Half-Wave Resistive Load 60Hz		Maximum Forward Peak Surge Current @8.3ms Superimposed	Maximum Reverse Current @PRV @25°C T _A	Maximum Forward Voltage @25°C T _A	
	PRV	I _o @ T _A		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}

MB/RA3505/KBPC35005 Series (50V-1000V) 35A / Case : KBPC/KBPC-W Outline : 43/44

MB3505/RA3505	50	35	55	400	10	17.5	1.1
MB351/RA351	100	35	55	400	10	17.5	1.1
MB352/RA352	200	35	55	400	10	17.5	1.1
MB354/RA354	400	35	55	400	10	17.5	1.1
MB356/RA356	600	35	55	400	10	17.5	1.1
MB358/RA358	800	35	55	400	10	17.5	1.1
MB3510/RA3510	1000	35	55	400	10	17.5	1.1
KBPC35005	50	35	55	400	10	17.5	1.1
KBPC3501	100	35	55	400	10	17.5	1.1
KBPC3502	200	35	55	400	10	17.5	1.1
KBPC3504	400	35	55	400	10	17.5	1.1
KBPC3506	600	35	55	400	10	17.5	1.1
KBPC3508	800	35	55	400	10	17.5	1.1
KBPC3510	1000	35	55	400	10	17.5	1.1

NOTE: Suffix "W" for wire lead type

MB/RA5005/KBPC50005 Series (50V-1000V) 50A / Case : KBPC/KBPC-W Outline : 43/44

MB5005	50	50	55	400	10	25	1.1
MB501	100	50	55	400	10	25	1.1
MB502	200	50	55	400	10	25	1.1
MB504	400	50	55	400	10	25	1.1
MB506	600	50	55	400	10	25	1.1
MB508	800	50	55	400	10	25	1.1
MB5010	1000	50	55	400	10	25	1.1
KBPC50005	50	50	55	400	10	25	1.1
KBPC5001	100	50	55	400	10	25	1.1
KBPC5002	200	50	55	400	10	25	1.1
KBPC5004	400	50	55	400	10	25	1.1
KBPC5006	600	50	55	400	10	25	1.1
KBPC5008	800	50	55	400	10	25	1.1
KBPC5010	1000	50	55	400	10	25	1.1

NOTE: Suffix "W" for wire lead type



STANDARD RECOVERY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @VRRM		Maximum Instantaneous Forward Voltage @25°C	
	VRRM	Io@TL		IFSM	IR@Ta		VF	IF
		A	°C		A	@25°C		
	VPK	A	°C	A	μA	μA	V	A

GL34A Series (50V-1000V) 0.5A / Case : MINI MELF (DO-213AA) Outline : 45

GL34A	50	0.5	75 ◆	10	5	100	1.1	0.5
GL34B	100	0.5	75 ◆	10	5	100	1.1	0.5
GL34D	200	0.5	75 ◆	10	5	100	1.1	0.5
GL34G	400	0.5	75 ◆	10	5	100	1.1	0.5
GL34J	600	0.5	75 ◆	10	5	100	1.1	0.5
GL34K	800	0.5	75 ◆	10	5	100	1.1	0.5
GL34M	1000	0.5	75 ◆	10	5	100	1.1	0.5

◆ Io@TT=75°C

Tj and Tstg of -65°C to +175°C

IFSM for 25°C

GL1A Series (50V-1000V) 1.0A / Case : MINI MELF (DO-213AA) Outline : 45

GL1A	50	1.0	75 ◆	25	5	50	1.2	1.0
GL1B	100	1.0	75 ◆	25	5	50	1.2	1.0
GL1D	200	1.0	75 ◆	25	5	50	1.2	1.0
GL1G	400	1.0	75 ◆	25	5	50	1.2	1.0
GL1J	600	1.0	75 ◆	25	5	50	1.3	1.0
GL1K	800	1.0	75 ◆	25	5	50	1.3	1.0
GL1M	1000	1.0	75 ◆	25	5	50	1.3	1.0

◆ Io@TT=75°C

Tj and Tstg of -50°C to +175°C

IFSM for 25°C

L4001A Series (50V-1000V) 1.0A / Case : MELF (DO-213AB) Outline : 46

LL4001	50	1.0	75	30	5	50	1.1	1.0
LL4002	100	1.0	75	30	5	50	1.1	1.0
LL4003	200	1.0	75	30	5	50	1.1	1.0
LL4004	400	1.0	75	30	5	50	1.1	1.0
LL4005	600	1.0	75	30	5	50	1.1	1.0
LL4006	800	1.0	75	30	5	50	1.1	1.0
LL4007	1000	1.0	75	30	5	50	1.1	1.0

Tj and Tstg of -65°C to +150°C

IFSM for 25°C

M1A Series (50V-1000V) 1.0A / Case : SMA (DO-214AC) Outline : 47

M1	50	1.0	125	30	5	50	1.1	1.0
M2	100	1.0	125	30	5	50	1.1	1.0
M3	200	1.0	125	30	5	50	1.1	1.0
M4	400	1.0	125	30	5	50	1.1	1.0
M5	600	1.0	125	30	5	50	1.1	1.0
M6	800	1.0	125	30	5	50	1.1	1.0
M7	1000	1.0	125	30	5	50	1.1	1.0

Tj and Tstg of -65°C to +175°C

IFSM for 25°C



STANDARD RECOVERY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @VRRM		Maximum Instantaneous Forward Voltage @25°C	
	VRRM	I _o @TL		IFSM	IR@Ta		VF	IF
		A	°C		A	@25°C		
	VPK			A	μA	μA	V	A

LL5391 Series (50V-1000V) 1.5A / Case : MELF (DO-213AB) Outline : 46

LL5391	50	1.5	75	50	5	50	1.1	1.5
LL5392	100	1.5	75	50	5	50	1.1	1.5
LL5393	200	1.5	75	50	5	50	1.1	1.5
LL5394	400	1.5	75	50	5	50	1.1	1.5
LL5395	600	1.5	75	50	5	50	1.1	1.5
LL5396	800	1.5	75	50	5	50	1.1	1.5
LL5397	1000	1.5	75	50	5	50	1.1	1.5

T_j and T_{stg} of -65°C to +150°C
IFSM for 25°C

LL2001 Series (50V-1000V) 2.0A / Case : MELF (DO-213AB) Outline : 46

LL2001	50	2.0	50	50	5	100	1.1	2.0
LL2002	100	2.0	50	50	5	100	1.1	2.0
LL2003	200	2.0	50	50	5	100	1.1	2.0
LL2004	400	2.0	50	50	5	100	1.1	2.0
LL2005	600	2.0	50	50	5	100	1.1	2.0
LL2006	800	2.0	50	50	5	100	1.1	2.0
LL2007	1000	2.0	50	50	5	100	1.1	2.0

T_j and T_{stg} of -65°C to +150°C
I_o@Ta=50°C
IFSM for 25°C

LL5401 Series (50V-1000V) 3.0A GLASS PASSIVATED / Case : MELF (DO-213AB) Outline : 46

LL5401	50	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5402	100	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5403	200	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5404	400	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5405	600	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5406	800	3.0	75 ◆	100	5	100	1.1	3.0 ★
LL5407	1000	3.0	75 ◆	100	5	100	1.1	3.0 ★

T_j and T_{stg} of -65°C to +150°C
◆ I_o@Ta=75°C
★ IR@Ta=25°C and Ta=150°C.
IFSM for 25°C

S1A Series (50V-1000V) 1.0A / Case : SMB (DO-214AA) Outline : 48

S1A	50	1.0	100	30	5	100	1.1	1.0
S1B	100	1.0	100	30	5	100	1.1	1.0
S1D	200	1.0	100	30	5	100	1.1	1.0
S1G	400	1.0	100	30	5	100	1.1	1.0
S1J	600	1.0	100	30	5	100	1.1	1.0
S1K	800	1.0	100	30	5	100	1.1	1.0
S1M	1000	1.0	100	30	5	100	1.1	1.0

T_j and T_{stg} of -65°C to +150°C
IFSM for 25°C



STANDARD RECOVERY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @VRRM		Maximum Instantaneous Forward Voltage @25°C	
	VRRM	I _o @TL		IFSM	IR@Ta		VF	IF
	VPK	A	°C	A	@25°C	@125°C		
					μA	μA	V	A

S2A Series (50V-1000V) 2.0A / Case : SMB (DO-214AA) Outline : 48

S2A	50	2.0	100	50	5	125	1.1	2.0
S2B	100	2.0	100	50	5	125	1.1	2.0
S2D	200	2.0	100	50	5	125	1.1	2.0
S2G	400	2.0	100	50	5	125	1.1	2.0
S2J	600	2.0	100	50	5	125	1.1	2.0
S2K	800	2.0	100	50	5	125	1.1	2.0
S2M	1000	2.0	100	50	5	125	1.1	2.0

T_j and T_{stg} of -55°C to +150°C
IFSM for 25°C

S3A Series (50V-1000V) 3.0A / Case : SMC (DO-214AB) Outline : 49

S3A	50	3.0	75	100	5	250	1.2	3.0
S3B	100	3.0	75	100	5	250	1.2	3.0
S3D	200	3.0	75	100	5	250	1.2	3.0
S3G	400	3.0	75	100	5	250	1.2	3.0
S3J	600	3.0	75	100	5	250	1.2	3.0
S3K	800	3.0	75	100	5	250	1.2	3.0
S3M	1000	3.0	75	100	5	250	1.2	3.0

T_j and T_{stg} of -65°C to +150°C
IFSM for 25°C



FAST RECOVERY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _a		I _{FSM}	I _R @T _a		V _F	I _F	T _{rr}
	V _{PK}	A	°C	A	@25°C μA	@125°C μA	V	A	ns

LLF101 Series (50V-1000V) 1.0A / Case : MELF (DO-213AB) Outline : 46

LLF101	50	1.0	55	30.0	5.0	100	1.3	1.0	150
LLF102	100	1.0	55	30.0	5.0	100	1.3	1.0	150
LLF103	200	1.0	55	30.0	5.0	100	1.3	1.0	150
LLF104	400	1.0	55	30.0	5.0	100	1.3	1.0	150
LLF105	600	1.0	55	30.0	5.0	100	1.3	1.0	250
LLF106	800	1.0	55	30.0	5.0	100	1.3	1.0	250
LLF107	1000	1.0	55	30.0	5.0	100	1.3	1.0	500

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

1A-M Series (50V-1000V) 1.0A / Case : SMA (DO-213AC) Outline : 47

1A	50	1.0	55 ♦	30.0	5.0	200	1.3	1.0	150
1B	100	1.0	55 ♦	30.0	5.0	200	1.3	1.0	150
1D	200	1.0	55 ♦	30.0	5.0	200	1.3	1.0	150
1G	400	1.0	55 ♦	30.0	5.0	200	1.3	1.0	150
1J	600	1.0	55 ♦	30.0	5.0	200	1.3	1.0	250
1K	800	1.0	55 ♦	30.0	5.0	200	1.3	1.0	500
1M	1000	1.0	55 ♦	30.0	5.0	200	1.3	1.0	500

T_j and T_{stg} of -65°C to +150°C

♦I_o@T_L=55°C

I_{FSM} for 25°C

FR2A-M Series (50V-1000V) 2.0A / Case : SMB (DO-213AA) Outline : 48

FR2A	50	2.0	90 ♦	50.0	5.0	200	1.3	2.0	150
FR2B	100	2.0	90 ♦	50.0	5.0	200	1.3	2.0	150
FR2D	200	2.0	90 ♦	50.0	5.0	200	1.3	2.0	150
FR2G	400	2.0	90 ♦	50.0	5.0	200	1.3	2.0	150
FR2J	600	2.0	90 ♦	50.0	5.0	200	1.3	2.0	250
FR2K	800	2.0	90 ♦	50.0	5.0	200	1.3	2.0	500
FR2M	1000	2.0	90 ♦	50.0	5.0	200	1.3	2.0	500

T_j and T_{stg} of -65°C to +150°C

♦I_o@T_L=90°C

I_{FSM} for 25°C



SUPER-FAST RECOVERY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _L		I _{FSM}	I _R @T _a		V _F	I _F	T _{rr}
		A	°C		A	@25°C			

SFM101 Series (50V-600V) 1.0A / Case : MELF (DO-213AB) Outline : 46

Part No.	V _{RRM}	I _o @T _L (A)	I _o @T _L (°C)	I _{FSM} (A)	I _R @T _a @25°C (μA)	I _R @T _a @100°C (μA)	V _F (V)	I _F (A)	T _{rr} (ns)
SFM101	50	1.0	55	30.0	5.0	100	1.0	1.0	35
SFM102	100	1.0	55	30.0	5.0	100	1.0	1.0	35
SFM103	200	1.0	55	30.0	5.0	100	1.0	1.0	35
SFM104	300	1.0	55	30.0	5.0	100	1.3	1.0	35
SFM105	400	1.0	55	30.0	5.0	100	1.3	1.0	35
SFM106	600	1.0	55	30.0	5.0	100	1.5	1.0	50

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

ES1A Series (50V-600V) 1.0A / Case : SMA (DO-213AC) Outline : 47

Part No.	V _{RRM}	I _o @T _L (A)	I _o @T _L (°C)	I _{FSM} (A)	I _R @T _a @25°C (μA)	I _R @T _a @100°C (μA)	V _F (V)	I _F (A)	T _{rr} (ns)
ES1A	50	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ES1B	100	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ES1C	150	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ES1D	200	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ES1E	300	1.0	55	30.0	5.0	50.0	1.25	1.0	35
ES1G	400	1.0	55	30.0	5.0	50.0	1.25	1.0	35
ES1J	600	1.0	55	30.0	5.0	50.0	1.50	1.0	50

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

E1A Series (50V-200V) 1.0A / Case : SMA (DO-213AC) Outline : 47

Part No.	V _{RRM}	I _o @T _L (A)	I _o @T _L (°C)	I _{FSM} (A)	I _R @T _a @25°C (μA)	I _R @T _a @100°C (μA)	V _F (V)	I _F (A)	T _{rr} (ns)
E1A	50	1.0	110	30.0	5.0	100	0.92	1.0	35
E1B	100	1.0	110	30.0	5.0	100	0.92	1.0	35
E1C	150	1.0	110	30.0	5.0	100	0.92	1.0	35
E1D	200	1.0	110	30.0	5.0	100	0.92	1.0	35

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

BY22A Series (50V-200V) 2.0A / Case : SMA (DO-213AC) Outline : 47

Part No.	V _{RRM}	I _o @T _L (A)	I _o @T _L (°C)	I _{FSM} (A)	I _R @T _a @25°C (μA)	I _R @T _a @100°C (μA)	V _F (V)	I _F (A)	T _{rr} (ns)
BYG22A	50	2.0	55	30.0	5.0	50.0	0.95	2.0	25
BYG22B	100	2.0	55	30.0	5.0	50.0	0.95	2.0	25
BYG22C	150	2.0	55	30.0	5.0	50.0	0.95	2.0	25
BYG22D	200	2.0	55	30.0	5.0	50.0	0.95	2.0	25

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

ER1A Series 2.0A & ER2A Series 2.0A (50V-600V) / Case : SMB (DO-213AA) Outline : 48

Part No.	V _{RRM}	I _o @T _L (A)	I _o @T _L (°C)	I _{FSM} (A)	I _R @T _a @25°C (μA)	I _R @T _a @100°C (μA)	V _F (V)	I _F (A)	T _{rr} (ns)
ER1A	50	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ER1B	100	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ER1C	150	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ER1D	200	1.0	55	30.0	5.0	50.0	0.95	1.0	35
ER1E	300	1.0	55	30.0	5.0	50.0	1.25	1.0	35
ER1G	400	1.0	55	30.0	5.0	50.0	1.25	1.0	35
ER1J	600	1.0	55	30.0	5.0	50.0	1.50	1.0	50
ER2A	50	2.0	55	50.0	5.0	50.0	0.95	2.0	35
ER2B	100	2.0	55	50.0	5.0	50.0	0.95	2.0	35
ER2C	150	2.0	55	50.0	5.0	50.0	0.95	2.0	35
ER2D	200	2.0	55	50.0	5.0	50.0	0.95	2.0	35
ER2E	300	2.0	55	50.0	5.0	50.0	1.25	2.0	35
ER2G	400	2.0	55	50.0	5.0	50.0	1.25	2.0	35
ER2J	600	2.0	55	50.0	5.0	50.0	1.50	2.0	50

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C



ULTRA FAST & HIGH EFFICIENCY RECTIFIERS

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @ V _{RRM}		Maximum Instantaneous Forward Voltage @ 25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _L		I _{FSM}	I _R @T _a		V _F	I _F	T _{rr}
	V _{PK}	A	°C	A	@25°C	@100°C	V	A	ns

LL101 Series (50V-1000V) 1.0A / Case : MELF (DO-213AB) Outline : 46

LL101	50	1.0	55	30.0	5.0	100	1.0	1.0	50
LL102	100	1.0	55	30.0	5.0	100	1.0	1.0	50
LL103	200	1.0	55	30.0	5.0	100	1.0	1.0	50
LL104	300	1.0	55	30.0	5.0	100	1.0	1.0	50
LL105	400	1.0	55	30.0	5.0	100	1.3	1.0	50
LL106	600	1.0	55	30.0	5.0	100	1.7	1.0	75
LL107	800	1.0	55	30.0	5.0	100	1.7	1.0	75
LL108	1000	1.0	55	30.0	5.0	100	1.7	1.0	75

T_j of -65°C to +125°C

T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

US1A Series (50V-1000V) 1.0A / Case : SMA (DO-213AC) Outline : 47

US1A	50	1.0	55	30.0	5.0	50.0	1.0	1.0	50
US1B	100	1.0	55	30.0	5.0	50.0	1.0	1.0	50
US1D	200	1.0	55	30.0	5.0	50.0	1.0	1.0	50
US1G	400	1.0	55	30.0	5.0	50.0	1.4	1.0	50
US1J	600	1.0	55	30.0	5.0	50.0	1.7	1.0	75
US1K	800	1.0	55	30.0	5.0	50.0	1.7	1.0	75
US1M	1000	1.0	55	30.0	5.0	50.0	1.7	1.0	75

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

UF1A Series (50V-1000V) 1.0A / Case : SMB (DO-213AA) Outline : 48

UF1A	50	1.0	55	30.0	5.0	50.0	1.0	1.0	50
UF1B	100	1.0	55	30.0	5.0	50.0	1.0	1.0	50
UF1D	200	1.0	55	30.0	5.0	50.0	1.0	1.0	50
UF1G	400	1.0	55	30.0	5.0	50.0	1.4	1.0	50
UF1J	600	1.0	55	30.0	5.0	50.0	1.7	1.0	75
UF1K	800	1.0	55	30.0	5.0	50.0	1.7	1.0	75
UF1M	1000	1.0	55	30.0	5.0	50.0	1.7	1.0	75

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

UF2A Series (50V-1000V) 2.0A / Case : SMB (DO-213AA) Outline : 48

UF2A	50	2.0	55	50.0	5.0	50.0	1.0	2.0	50
UF2B	100	2.0	55	50.0	5.0	50.0	1.0	2.0	50
UF2D	200	2.0	55	50.0	5.0	50.0	1.0	2.0	50
UF2G	400	2.0	55	50.0	5.0	50.0	1.4	2.0	50
UF2J	600	2.0	55	50.0	5.0	50.0	1.7	2.0	75
UF2K	800	2.0	55	50.0	5.0	50.0	1.7	2.0	75
UF2M	1000	2.0	55	50.0	5.0	50.0	1.7	2.0	75

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

US2A Series (50V-1000V) 2.0A / Case : SMA (DO-213AC) Outline : 47

US2A	50	2.0	55	50.0	5.0	50.0	1.0	2.0	50
US2B	100	2.0	55	50.0	5.0	50.0	1.0	2.0	50
US2D	200	2.0	55	50.0	5.0	50.0	1.0	2.0	50
US2G	400	2.0	55	50.0	5.0	50.0	1.4	2.0	50
US2J	600	2.0	55	50.0	5.0	50.0	1.7	2.0	75
US2K	800	2.0	55	50.0	5.0	50.0	1.7	2.0	75
US2M	1000	2.0	55	50.0	5.0	50.0	1.7	2.0	75

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C



SCHOTTKY DIODES

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _L		I _{fSM}	I _r @T _a		V _F	I _F
	V _{PK}	A	°C	A	@25°C	@125°C	V	A

SGL34Series (20V-60V) 0.8A / Case : MINI MELF (DO-213AA) Outline : 45

SGL34-20	20	0.8	75	25.0	0.5	10	0.50	0.8
SGL34-30	30	0.8	75	25.0	0.5	10	0.55	0.8
SGL34-40	40	0.8	75	25.0	0.5	10	0.55	0.8
SGL34-50	50	0.8	100	25.0	0.5	10	0.70	0.8
SGL34-60	60	0.8	100	25.0	0.5	10	0.70	0.8

T_j of -65°C to +125°C
T_{stg} of -65°C to +150°C
I_{fSM} for 25°C

LL5817 Series (20-60V) 1.0A / Case : MELF (DO-213AB) Outline : 46

LL 5817	20	1.0	75	30.0	1.0	10	0.50	1.0
LL 5818	30	1.0	75	30.0	1.0	10	0.55	1.0
LL 5819	40	1.0	75	30.0	1.0	10	0.60	1.0
SGL41-50	50	1.0	100	30.0	1.0	5.0	0.70	1.0
SGL41-60	60	1.0	100	30.0	1.0	5.0	0.70	1.0

SM5817~S5819: T_j of -55°C to +125°C
SGL14-50~SGL14-60: T_j of -55°C to +150°C
T_{stg} of -55°C to +150°C
I_{fSM} for 25°C

S12 Series (20V-100V) 1.0A / Case : SMA (DO-213AC) Outline : 47

S12	20	1.0	100	30	0.5	10.0	0.50	1.0
S13	30	1.0	100	30	0.5	10.0	0.55	1.0
S14	40	1.0	100	30	0.5	10.0	0.55	1.0
S15	50	1.0	100	30	0.5	10.0	0.70	1.0
S16	60	1.0	100	30	0.5	10.0	0.70	1.0
S18	80	1.0	100	30	0.5	10.0	0.85	1.0
S19	90	1.0	100	30	0.5	10.0	0.85	1.0
S1A0	100	1.0	100	30	0.5	10.0	0.85	1.0

T_j and T_{stg} of -65°C to +150°C
I_{fSM} for 25°C

S22 Series (20V-100V) 2.0A / Case : SMA (DO-213AC) Outline : 47

S22	20	2.0	105	50.0	0.5	20.0	0.50	2.0
S23	30	2.0	105	50.0	0.5	20.0	0.55	2.0
S24	40	2.0	105	50.0	0.5	20.0	0.55	2.0
S25	50	2.0	105	50.0	0.5	20.0	0.70	2.0
S26	60	2.0	105	50.0	0.5	20.0	0.70	2.0
S28	80	2.0	105	50.0	0.5	20.0	0.85	2.0
S29	90	2.0	105	50.0	0.5	20.0	0.85	2.0
S2A0	100	2.0	105	50.0	0.5	20.0	0.85	2.0

T_j and T_{stg} of -65°C to +150°C
I_{fSM} for 25°C

S32 Series (20V-100V) 3.0A / Case : SMA (DO-213AC) Outline : 47

S32	20	3.0	105	90.0	0.5	20.0	0.55	3.0
S33	30	3.0	105	90.0	0.5	20.0	0.55	3.0
S34	40	3.0	105	90.0	0.5	20.0	0.55	3.0
S35	50	3.0	105	90.0	0.5	20.0	0.70	3.0
S36	60	3.0	105	90.0	0.5	20.0	0.70	3.0
S38	80	3.0	105	90.0	0.5	20.0	0.85	3.0
S39	90	3.0	105	90.0	0.5	20.0	0.85	3.0
S3A0	100	3.0	105	90.0	0.5	20.0	0.85	3.0

T_j and T_{stg} of -65°C to +150°C I_{fSM} for 25°C



SCHOTTKY DIODES

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _{o@TL}		I _{FSM}	I _{r@Ta}		V _F	I _F
		A	°C		A	A		
	V _{PK}						V	A

SB12 (S12) Series (20V-100V) 1.0A / Case : SMB (DO-213AA) Outline : 48

SB12(S12)	20	1.0	110	30.0	0.5	20.0	0.50	1.0
SB13(S13)	30	1.0	110	30.0	0.5	20.0	0.55	1.0
SB14(S14)	40	1.0	110	30.0	0.5	20.0	0.55	1.0
SB15(S15)	50	1.0	110	30.0	0.5	20.0	0.70	1.0
SB16(S16)	60	1.0	110	30.0	0.5	20.0	0.70	1.0
SB18 (S18)	80	1.0	110	30.0	0.5	20.0	0.85	1.0
SB19 (S19)	90	1.0	110	30.0	0.5	20.0	0.85	1.0
SB1A0 (S1A0)	100	1.0	110	30.0	0.5	20.0	0.85	1.0

T_j and T_{stg} of -65°C to +150°C

SB12~SB1A0, MARKING: S12~S1A0

I_{FSM} for 25°C

SB22 (S22) Series (20V-100V) 2.0A / Case : SMB (DO-213AA) Outline : 48

SB22 (S22)	20	2.0	105	50.0	0.5	20.0	0.50	2.0
SB23 (S23)	30	2.0	105	50.0	0.5	20.0	0.55	2.0
SB24 (S24)	40	2.0	105	50.0	0.5	20.0	0.55	2.0
SB25 (S25)	50	2.0	105	50.0	0.5	20.0	0.70	2.0
SB26 (S26)	60	2.0	105	50.0	0.5	20.0	0.70	2.0
SB28 (S28)	80	2.0	105	50.0	0.5	20.0	0.85	2.0
SB29 (S29)	90	2.0	105	50.0	0.5	20.0	0.85	2.0
SB2A0 (S2A0)	100	2.0	105	50.0	0.5	20.0	0.85	2.0

T_j and T_{stg} of -65°C to +150°C

SB22~SB2A0 MARKING: S22~S2A0

I_{FSM} for 25°C

SB32 (S32) Series (20V-100V) 3.0A / Case : SMB (DO-213AA) Outline : 48

SB32 (S32)	20	3.0	105	90.0	0.5	20.0	0.55	3.0
SB33 (S33)	30	3.0	105	90.0	0.5	20.0	0.55	3.0
SB34 (S34)	40	3.0	105	90.0	0.5	20.0	0.55	3.0
SB35 (S35)	50	3.0	105	90.0	0.5	20.0	0.70	3.0
SB36 (S36)	60	3.0	105	90.0	0.5	20.0	0.70	3.0
SB38 (S38)	80	3.0	105	90.0	0.5	20.0	0.85	3.0
SB39 (S39)	90	3.0	105	90.0	0.5	20.0	0.85	3.0
SB3A0 (S3A0)	100	3.0	105	90.0	0.5	20.0	0.85	3.0

T_j and T_{stg} of -65°C to +150°C

SB32~SB3A0 MARKING: S32~S3A0

I_{FSM} for 25°C

SB52 Series (20V-100V) 5.0A / Case : SMB (DO-213AA) Outline : 48

SB52	20	5.0	105	100	0.5	50.0	0.55	5.0
SB53	30	5.0	105	100	0.5	50.0	0.55	5.0
SB54	40	5.0	105	100	0.5	50.0	0.55	5.0
SB55	50	5.0	105	100	0.5	50.0	0.70	5.0
SB56	60	5.0	105	100	0.5	50.0	0.70	5.0
SB58	80	5.0	105	100	0.5	50.0	0.85	5.0
SB5A0	100	5.0	105	100	0.5	50.0	0.85	5.0

T_j and T_{stg} of -65°C to +150°C

I_{FSM} for 25°C



SCHOTTKY DIODES

SURFACE MOUNT

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Peak forward Surge Current 8.3ms Single Half Sine-Wave Superimposed On Rated Load	Maximum DC Instantaneous Reverse Current @V _{RRM}		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _{o@TL}		I _{FSM}	I _{R@T_a}		V _F	I _F
	V _{PK}	A	°C	A	@25°C	@100°C	V	A

SK32 Series (20V-100V) 3.0A / Case : SMC (DO-214AB) Outline : 49

SK32	20	3.0	105	80.0	0.5	20	0.55	3.0
SK33	30	3.0	105	80.0	0.5	20	0.55	3.0
SK34	40	3.0	105	80.0	0.5	20	0.55	3.0
SK35	50	3.0	105	80.0	0.5	20	0.70	3.0
SK36	60	3.0	105	80.0	0.5	20	0.70	3.0
SK38	80	3.0	135	80.0	0.5	20	0.85	3.0
SK3A0	100	3.0	135	80.0	0.5	20	0.85	3.0

T_j of -65°C to +125°C

T_{stg} of -65°C to +150°C

I_{FSM} for 25°C

SK52 Series (20V-100V) 5.0A / Case : SMC (DO-214AB) Outline : 49

SK52	20	5.0	75	100.0	0.5	20	0.55	5.0
SK53	30	5.0	75	100.0	0.5	20	0.55	5.0
SK54	40	5.0	75	100.0	0.5	20	0.55	5.0
SK55	50	5.0	75	100.0	0.5	20	0.70	5.0
SK56	60	5.0	75	100.0	0.5	20	0.70	5.0
SK58	80	5.0	75	100.0	0.5	20	0.85	5.0
SK5A0	100	5.0	75	100.0	0.5	20	0.85	5.0

T_j and T_{stg} of -65°C to +125°C

I_{FSM} for 25°C



TRANSIENT VOLTAGE SUPPRESSORS

P4KE /P4KECA Series (6.8V-440V) 400WATTS / Case : DO-41 Outline : 2

OPERATING TEMPERATURE -55°C TO +175°C

TYPE	Breakdown Voltage		@IT (mA)	Working Peak Reverse Voltage V _{RWM} (Volts)	Maximum Reverse Leakage at V _{RWM} IR(μA)	Maximum Reverse Current I _{RSM} (Amps)	MAX. Clamping Voltage V _{RWM} (Volts)	Maximum temperature Coefficient of V _{BR} (%°C)
	V _{BR} (Volts)							
	MIN	MAX						
P4KE6.8(C)	6.12	7.48	10	5.50	1000	38	10.8	0.057
P4KE6.8(C)A	6.45	7.14	10	5.80	1000	40	10.5	0.057
P4KE7.5(C)	6.75	8.25	10	6.05	500	36	11.7	0.061
P4KE7.5(C)A	7.13	7.88	10	6.40	500	37	11.3	0.061
P4KE8.2(C)	7.38	9.02	10	6.63	200	33	12.5	0.065
P4KE8.2(C)A	7.79	8.61	10	7.02	200	35	12.1	0.065
P4KE9.1(C)	8.19	10.0	1.0	7.37	50	30	13.8	0.068
P4KE9.1(C)A	8.65	9.55	1.0	7.78	50	31	13.4	0.068
P4KE10(C)	9.00	11.0	1.0	8.10	10	28	15.0	0.073
P4KE10(C)A	9.50	10.5	1.0	8.55	10	29	14.5	0.073
P4KE11(C)	9.90	12.1	1.0	8.92	5.0	26	16.2	0.075
P4KE11(C)A	10.5	11.6	1.0	9.40	5.0	27	15.6	0.076
P4KE12(C)	10.8	13.2	1.0	9.72	5.0	24	17.3	0.078
P4KE12(C)A	11.4	12.6	1.0	10.2	5.0	25	16.7	0.078
P4KE13(C)	11.7	14.3	1.0	10.5	5.0	22	19.0	0.081
P4KE13(C)A	12.4	13.7	1.0	11.1	5.0	23	18.2	0.081
P4KE15(C)	13.5	16.5	1.0	12.1	5.0	19	22.0	0.084
P4KE15(C)A	14.3	15.8	1.0	12.8	5.0	20	21.2	0.084
P4KE16(C)	14.4	17.6	1.0	12.9	5.0	18	23.5	0.086
P4KE16(C)A	15.2	16.8	1.0	13.6	5.0	19	22.5	0.086
P4KE18(C)	16.2	19.8	1.0	14.5	5.0	16	26.5	0.088
P4KE18(C)A	17.1	18.9	1.0	15.3	5.0	17	25.5	0.088
P4KE20(C)	18.0	22.0	1.0	16.2	5.0	14	29.1	0.090
P4KE20(C)A	19.0	21.0	1.0	17.1	5.0	15	27.7	0.090
P4KE22(C)	19.8	24.2	1.0	17.8	5.0	13	31.9	0.092
P4KE22(C)A	20.9	23.1	1.0	18.8	5.0	14	30.6	0.092
P4KE24(C)	21.6	26.4	1.0	19.4	5.0	12	34.7	0.094
P4KE24(C)A	22.8	25.2	1.0	20.5	5.0	13	33.2	0.094
P4KE27(C)	24.3	29.7	1.0	21.8	5.0	11	39.1	0.096
P4KE27(C)A	25.7	28.4	1.0	23.1	5.0	11.2	37.5	0.096
P4KE30(C)	27.0	33.0	1.0	24.3	5.0	10	43.5	0.097
P4KE30(C)A	28.5	31.5	1.0	25.6	5.0	10	41.4	0.097
P4KE33(C)	29.7	36.3	1.0	26.8	5.0	9	47.7	0.098
P4KE33(C)A	31.4	34.7	1.0	28.2	5.0	9	45.7	0.098
P4KE36(C)	32.4	39.6	1.0	29.1	5.0	8	52.0	0.099
P4KE36(C)A	34.2	37.8	1.0	30.8	5.0	8.4	49.9	0.099
P4KE39(C)	35.1	42.9	1.0	31.6	5.0	7.4	56.4	0.100
P4KE39(C)A	37.1	41.0	1.0	33.3	5.0	7.8	53.9	0.100
P4KE43(C)	38.7	47.3	1.0	34.8	5.0	6.8	61.9	0.101
P4KE43(C)A	40.9	45.2	1.0	36.8	5.0	7.1	59.3	0.101
P4KE47(C)	42.3	51.7	1.0	38.1	5.0	6.2	67.8	0.101
P4KE47(C)A	44.7	49.4	1.0	40.2	5.0	6.5	64.8	0.101
P4KE51(C)	45.9	56.1	1.0	41.3	5.0	5.7	73.5	0.102
P4KE51(C)A	48.5	53.6	1.0	43.6	5.0	6.0	70.1	0.102
P4KE56(C)	50.4	61.6	1.0	45.4	5.0	5.2	80.5	0.103
P4KE56(C)A	53.2	58.8	1.0	47.8	5.0	5.5	77.0	0.103
P4KE62(C)	55.8	68.2	1.0	50.2	5.0	4.7	89.0	0.104
P4KE62(C)A	58.9	65.1	1.0	53.0	5.0	5.0	85.0	0.104
P4KE68(C)	61.2	74.8	1.0	55.1	5.0	4.3	98.0	0.104
P4KE68(C)A	64.6	71.4	1.0	58.1	5.0	4.6	92.0	0.104
P4KE75(C)	67.5	82.5	1.0	60.7	5.0	3.9	108.0	0.105
P4KE75(C)A	71.3	78.8	1.0	64.1	5.0	4.1	103.0	0.105
P4KE82(C)	73.8	90.2	1.0	66.4	5.0	3.6	118.0	0.105
P4KE82(C)A	77.9	86.1	1.0	70.1	5.0	3.7	113.0	0.105
P4KE91(C)	81.9	100.0	1.0	73.7	5.0	3.2	131.8	0.106
P4KE91(C)A	86.5	95.50	1.0	77.8	5.0	3.4	125.0	0.106
P4KE100(C)	90.0	110.0	1.0	81.0	5.0	2.9	144.0	0.106
P4KE100(C)A	95.0	105.0	1.0	85.5	5.0	3.1	137.0	0.106
P4KE110(C)	99.0	121.0	1.0	89.2	5.0	2.7	158.0	0.107
P4KE110(C)A	105.0	116.0	1.0	94.0	5.0	2.8	152.0	0.107
P4KE120(C)	108.0	132.0	1.0	97.2	5.0	2.4	173.0	0.107
P4KE120(C)A	114.0	126.0	1.0	102.0	5.0	2.5	165.0	0.107
P4KE130(C)	117.0	143.0	1.0	105.0	5.0	2.2	187.0	0.107
P4KE130(C)A	124.0	137.0	1.0	111.0	5.0	2.3	179.0	0.107
P4KE150(C)	135.0	165.0	1.0	121.0	5.0	2.0	215.0	0.108
P4KE150(C)A	143.0	158.0	1.0	128.0	5.0	2.0	207.0	0.108
P4KE160(C)	144.0	176.0	1.0	130.0	5.0	1.8	230.0	0.108
P4KE160(C)A	152.0	168.0	1.0	136.0	5.0	1.9	219.0	0.108
P4KE170(C)	153.0	187.0	1.0	138.0	5.0	1.7	244.0	0.108
P4KE170(C)A	162.0	179.0	1.0	145.0	5.0	1.8	234.0	0.108
P4KE180(C)	162.0	198.0	1.0	146.0	5.0	1.6	258.0	0.108
P4KE180(C)A	171.0	189.0	1.0	154.0	5.0	1.7	246.0	0.108
P4KE200(C)	180.0	220.0	1.0	162.0	5.0	1.5	287.0	0.108
P4KE200(C)A	190.0	210.0	1.0	171.0	5.0	1.53	274.0	0.108
P4KE220(C)	198.0	242.0	1.0	175.0	5.0	1.16	344.0	0.108
P4KE220(C)A	209.0	231.0	1.0	185.0	5.0	1.22	328.0	0.108
P4KE250(C)	225.0	275.0	1.0	202.0	5.0	1.11	360.0	0.110
P4KE250(C)A	237.0	263.0	1.0	214.0	5.0	1.16	344.0	0.110
P4KE300(C)	270.0	330.0	1.0	243.0	5.0	0.93	430.0	0.110
P4KE300(C)A	285.0	315.0	1.0	256.0	5.0	0.97	414.0	0.110
P4KE350(C)	315.0	385.0	1.0	284.0	5.0	0.79	504.0	0.110
P4KE350(C)A	332.0	368.0	1.0	300.0	5.0	0.83	482.0	0.110
P4KE400(C)	360.0	440.0	1.0	324.0	5.0	0.70	574.0	0.110
P4KE400(C)A	380.0	420.0	1.0	342.0	5.0	0.73	548.0	0.110
P4KE440(C)	396.0	484.0	1.0	356.0	5.0	0.64	630.0	0.113
P4KE440(C)A	418.0	462.0	1.0	376.0	5.0	0.67	600.0	0.113

NOTE :1. V_F=3.5 V at I_F=25A(P4KE6.8 thru P4KE200A) , V_F=6.5 V at I_F=25A(P4KE220 thru P4KE440A)
 on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle = 4 Pulses per Minute Maximum
 2. For Bipolar types with VR of 10 volts and under ,the IR limit is doubled
 3. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



TRANSIENT VOLTAGE SUPPRESSORS

SA5.0 CA Series (6.8V-209V) 500WATTS / Case : DO-15 Outline : 3

OPERATING TEMPERATURE -55°C TO +175°C

TYPE	Breakdown Voltage		@IT (mA)	Working Peak Reverse Voltage V_{RWM} (Volts)	Maximum Reverse Leakage at V_{RWM} IR(μ A)	Maximum Reverse Current I_{RSM} (Amps)	Max. Clamping Voltage V_{RWM} (Volts)	Maximum Temperature Coefficient of V_{BR} (% $^{\circ}$ C)
	V_{RR} (Volts)							
	MIN	MAX						
SA5.0(C)	6.40	7.30	10	5.0	600	52.0	9.6	5.0
SA5.0(C)A	6.40	7.00	10	5.0	600	54.3	9.2	5.0
SA6.0(C)	6.67	8.15	10	6.0	600	43.9	11.4	5.0
SA6.0(C)A	6.67	7.37	10	6.0	600	48.5	10.3	5.0
SA6.5(C)	7.22	8.82	10	6.5	400	40.7	12.3	5.0
SA6.5(C)A	7.22	7.98	10	6.5	400	44.7	11.2	5.0
SA7.0(C)	7.78	9.51	10	7.0	150	37.8	13.3	6.0
SA7.0(C)A	7.78	8.60	10	7.0	150	41.7	12.0	6.0
SA7.5(C)	8.33	10.2	1.0	7.5	50	35.0	14.3	7.0
SA7.5(C)A	8.33	9.21	1.0	7.5	50	38.8	12.9	7.0
SA8.0(C)	8.89	10.9	1.0	8.0	25	33.3	15.0	7.0
SA8.0(C)A	8.89	9.83	1.0	8.0	25	36.7	13.6	7.0
SA8.5(C)	9.44	11.5	1.0	8.5	10	31.4	15.9	8.0
SA8.5(C)A	9.44	10.4	1.0	8.5	10	34.7	14.4	8.0
SA9.0(C)	10.0	12.2	1.0	9.0	5.0	29.5	16.9	9.0
SA9.0(C)A	10.0	11.1	1.0	9.0	5.0	32.5	15.4	9.0
SA10(C)	11.1	13.6	1.0	10.0	1.0	26.6	18.8	10.0
SA10(C)A	11.1	12.3	1.0	10.0	1.0	29.4	17.0	10.0
SA11(C)	12.2	14.9	1.0	11.0	1.0	24.9	20.1	11.0
SA11(C)A	12.2	13.5	1.0	11.0	1.0	27.4	18.2	11.0
SA12(C)	13.3	16.3	1.0	12.0	1.0	22.7	22.0	12.0
SA12(C)A	13.3	14.7	1.0	12.0	1.0	25.1	19.9	12.0
SA13(C)	14.4	17.6	1.0	13.0	1.0	21.0	23.8	13.0
SA13(C)A	14.4	15.9	1.0	13.0	1.0	23.2	21.5	13.0
SA14(C)	15.6	19.1	1.0	14.0	1.0	19.4	25.8	14.0
SA14(C)A	15.6	17.2	1.0	14.0	1.0	21.5	23.2	14.0
SA15(C)	16.7	20.4	1.0	15.0	1.0	18.8	26.9	16.0
SA15(C)A	16.7	18.5	1.0	15.0	1.0	20.6	24.4	16.0
SA16(C)	17.8	21.8	1.0	16.0	1.0	17.6	28.8	19.0
SA16(C)A	17.8	19.7	1.0	16.0	1.0	19.2	26.0	17.0
SA17(C)	18.9	23.1	1.0	17.0	1.0	16.4	30.5	20.0
SA17(C)A	18.9	20.9	1.0	17.0	1.0	18.1	27.6	19.0
SA18(C)	20.0	24.4	1.0	18.0	1.0	15.5	32.2	21.0
SA18(C)A	20.0	22.1	1.0	18.0	1.0	17.2	29.2	20.0
SA20(C)	22.2	27.1	1.0	20.0	1.0	13.9	35.8	25.0
SA20(C)A	22.2	24.5	1.0	20.0	1.0	15.4	32.4	23.0
SA22(C)	24.4	29.8	1.0	22.0	1.0	12.7	39.4	28.0
SA22(C)A	24.4	26.9	1.0	22.0	1.0	14.1	35.5	25.0
SA24(C)	26.7	32.6	1.0	24.0	1.0	11.6	43.0	31.0
SA24(C)A	26.7	29.5	1.0	24.0	1.0	12.8	38.9	28.0
SA26(C)	28.9	35.3	1.0	26.0	1.0	10.7	46.6	31.0
SA26(C)A	28.9	31.9	1.0	26.0	1.0	11.9	42.1	30.0
SA28(C)	31.1	38.0	1.0	28.0	1.0	9.9	50.1	35.0
SA28(C)A	31.1	34.4	1.0	28.0	1.0	11.0	45.4	31.0
SA30(C)	33.3	40.7	1.0	30.0	1.0	9.3	53.5	39.0
SA30(C)A	33.3	36.8	1.0	30.0	1.0	10.3	48.4	36.0
SA33(C)	36.7	44.9	1.0	33.0	1.0	8.6	59.0	42.0
SA33(C)A	36.7	40.6	1.0	33.0	1.0	9.4	53.3	39.0
SA36(C)	40.0	48.9	1.0	36.0	1.0	7.8	64.3	46.0
SA36(C)A	40.0	44.2	1.0	36.0	1.0	8.6	58.1	41.0
SA40(C)	44.4	54.3	1.0	40.0	1.0	7.0	71.4	51.0
SA40(C)A	44.4	49.1	1.0	40.0	1.0	7.8	64.5	46.0
SA43(C)	47.8	58.4	1.0	43.0	1.0	6.5	76.7	55.0
SA43(C)A	47.8	52.8	1.0	43.0	1.0	7.2	69.4	50.0
SA45(C)	50.0	61.1	1.0	45.0	1.0	6.2	80.3	58.0
SA45(C)A	50.0	55.3	1.0	45.0	1.0	6.9	72.7	52.0
SA48(C)	53.3	65.2	1.0	48.0	1.0	5.8	85.5	63.0
SA48(C)A	53.3	58.9	1.0	48.0	1.0	6.5	77.4	56.0
SA51(C)	56.7	69.3	1.0	51.0	1.0	5.5	91.1	66.0
SA51(C)A	56.7	62.7	1.0	51.0	1.0	6.1	82.4	61.0
SA54(C)	60.0	73.3	1.0	54.0	1.0	5.2	96.3	71.0
SA54(C)A	60.0	66.3	1.0	54.0	1.0	5.7	87.1	65.0
SA58(C)	64.4	78.7	1.0	58.0	1.0	4.9	103.0	78.0
SA58(C)A	64.4	71.2	1.0	58.0	1.0	5.3	93.6	70.0
SA60(C)	66.7	81.5	1.0	60.0	1.0	4.7	107.0	80.0
SA60(C)A	66.7	73.7	1.0	60.0	1.0	5.2	96.8	71.0
SA64(C)	71.1	86.9	1.0	64.0	1.0	4.4	114.0	86.0
SA64(C)A	71.1	78.6	1.0	64.0	1.0	4.9	103.0	76.0
SA70(C)	77.8	95.1	1.0	70.0	1.0	4.0	125.0	94.0
SA70(C)A	77.8	86.0	1.0	70.0	1.0	4.4	113.0	85.0
SA75(C)	83.3	102.0	1.0	75.0	1.0	3.7	134.0	101
SA75(C)A	83.3	92.1	1.0	75.0	1.0	4.1	121.0	91.0
SA78(C)	86.7	106.0	1.0	78.0	1.0	3.6	139.0	105
SA78(C)A	86.7	95.8	1.0	78.0	1.0	4.0	126.0	95.0
SA85(C)	94.4	115.0	1.0	85.0	1.0	3.3	151.0	114
SA85(C)A	94.4	104.0	1.0	85.0	1.0	3.6	137.0	103
SA90(C)	100	122.0	1.0	90.0	1.0	3.1	160.0	121
SA90(C)A	100	111.0	1.0	90.0	1.0	3.4	146.0	110
SA100(C)	111	136.0	1.0	100.0	1.0	2.8	179.0	135
SA100(C)A	111	123.0	1.0	100.0	1.0	3.1	162.0	123
SA110(C)	122	149.0	1.0	110.0	1.0	2.6	196.0	148
SA110(C)A	122	135.0	1.0	110.0	1.0	2.8	177.0	133
SA120(C)	133	163.0	1.0	120.0	1.0	2.3	214.0	162
SA120(C)A	133	147.0	1.0	120.0	1.0	2.0	193.0	146
SA130(C)	144	176.0	1.0	130.0	1.0	2.2	230.0	175
SA130(C)A	144	159.0	1.0	130.0	1.0	2.4	209.0	158
SA150(C)	167	204.0	1.0	150.0	1.0	1.9	268.0	203
SA150(C)A	167	185.0	1.0	150.0	1.0	2.1	243.0	184
SA160(C)	178	218.0	1.0	160.0	1.0	1.7	257.0	217
SA160(C)A	178	197.0	1.0	160.0	1.0	1.9	259.0	196
SA170(C)	189	231.0	1.0	170.0	1.0	1.6	304.0	230
SA170(C)A	189	209.0	1.0	170.0	1.0	1.8	275.0	208

NOTE: 1. $V_T=3.5$ Volts max $I_T=35A$ for all types on 1/2 square „Equivalent“ Sine Wave.
 2. $PW=8.3ms$, Duty Cycle = 4 Pluse per Minute Maximum ; For bipolar type with V_R 10 Volts and under ,the I_R limit is doubled.
 3. For Bidirectional use C suffix for 10% tolerance. CA suffix for 5% tolerance



TRANSIENT VOLTAGE SUPPRESSORS

LOW CAPACITACE 500W TRANSIENT VOLTAGE SUPPRESSORS

SAC5.0 Series (5.0V-55V) 500WATTS / Case : DO-15 Outline : 3

OPERATING TEMPERATURE -55°C TO +175°C

TYPE	Stand-off Voltage V_{WM} (Volts)	Min. Breakdown Voltage At $I_T=1.0mA$ $V_{(BR)}$ (Volts)	Max. Reverse Leakage At V_{WM} I_R (μA)	Max Clamping Voltage At $I_{pp}=5.0A$ V_c (Volts)	Max. Peak Pulse Current I_{pp} (Amps)	Inverse Blocking Leakage Current At V_{WIB} I_{IB} (mA)	Working Inverse Blocking Voltage V_{WIB} (Volts)	Max. Junction Capacitance At 0 Volts (pF)	Peak Inverse Blocking Voltage V_{PIB} (Volts)
SAC5.0	5.0	7.60	300	10.0	44	1.0	75	50	100
SAC6.0	6.0	7.90	300	11.2	41	1.0	75	50	100
SAC7.0	7.0	8.33	300	12.6	38	1.0	75	50	100
SAC8.0	8.0	8.89	100	13.4	36	1.0	75	50	100
SAC8.5	8.5	9.44	50	14.0	34	1.0	75	50	100
SAC10	10	11.10	5.0	16.3	29	1.0	75	50	100
SAC12	12	13.30	5.0	19.0	25	1.0	75	50	100
SAC15	15	16.70	5.0	23.6	20	1.0	75	50	100
SAC18	18	20.00	5.0	28.8	15	1.0	75	50	100
SAC22	22	24.40	5.0	35.4	14	1.0	75	50	100
SAC26	26	28.90	5.0	42.3	11.1	1.0	75	50	100
SAC30	30	33.30	5.0	48.6	10.0	1.0	75	50	100
SAC36	36	40.00	5.0	60.0	8.6	1.0	75	50	100
SAC45	45	50.00	5.0	77.0	6.8	1.0	150	50	200
SAC50	50	55.50	5.0	88.0	5.8	1.0	150	50	200

LOW CAPACITACE 600W TRANSIENT VOLTAGE SUPPRESSORS

LC P6KE /P6KECA Series (6.2V-376V) 600WATTS / Case : DO-15 Outline : 3

TYPE	Breakdown Voltage		Working Peak Reverse Voltage V_{rwm} (Volts)	Max. Reverse Leakage At V_{rwm} $I_r(\mu A)$	Max. Reverse Current I_{sm} (Amps)	Max. Reverse Current I_{sm} (Amps)	Max Clamping Voltage V_{rwm} (Volts)	Max. Junction Capacitance At 0 Volts (Pf)	Peak Inverse Blocking Voltage V_{PIB} (Volts)	
	V_{BR} (Volts)									@IT (mA)
	MIN	MAX								
LC P6KE6.8	6.29	7.31	10.0	5.65	1000	56	56	10.8	50	100
LC P6KE7.5	6.94	8.06	10.0	6.25	500	51	51	11.7	50	100
LC P6KE8.2	7.58	8.82	10.0	6.82	200	48	48	12.5	50	100
LC P6KE9.1	8.42	9.78	1.0	7.58	50	44	44	13.8	50	100
LC P6KE10	9.25	10.8	1.0	8.36	10	40	40	15.0	50	100
LC P6KE11	10.18	11.83	1.0	8.10	5.0	37	37	16.2	50	100
LC P6KE12	11.10	12.90	1.0	9.99	5.0	35	35	17.3	50	100
LC P6KE13	12.03	13.98	1.0	11.1	5.0	32	32	19.0	50	100
LC P6KE15	13.8	16.1	1.0	12.47	5.0	27	27	22.0	50	100
LC P6KE16	14.8	17.2	1.0	13.32	5.0	26	26	23.5	50	100
LC P6KE18	16.6	19.4	1.0	14.99	5.0	23	23	26.5	50	100
LC P6KE20	18.5	21.5	1.0	16.65	5.0	21	21	29.1	50	100
LC P6KE22	20.3	23.7	1.0	18.82	5.0	19	19	31.9	50	100
LC P6KE24	22.2	25.8	1.0	19.98	5.0	17	17	34.7	50	100
LC P6KE27	24.9	29.0	1.0	22.48	5.0	15	15	39.1	50	100
LC P6KE30	27.7	32.3	1.0	24.98	5.0	14	14	43.5	50	100
LC P6KE33	30.5	35.5	1.0	27.47	5.0	12.6	12.6	47.7	50	100
LC P6KE36	33.3	38.7	1.0	29.97	5.0	11.6	11.6	52.0	50	100
LC P6KE39	36.0	41.9	1.0	32.47	5.0	10.6	10.6	56.4	50	100
LC P6KE43	39.8	46.2	1.0	35.80	5.0	9.6	9.6	61.9	50	100
LC P6KE47	43.4	50.5	1.0	39.12	5.0	8.9	8.9	67.8	50	200
LC P6KE51	47.2	54.8	1.0	42.48	5.0	8.2	8.2	73.5	50	200
LC P6KE56	51.8	60.2	1.0	47.88	5.0	7.4	7.4	80.5	50	200
LC P6KE62	57.3	66.7	1.0	51.62	5.0	6.8	6.8	89.0	50	200
LC P6KE68	62.9	73.1	1.0	56.6	5.0	6.1	6.1	98.0	50	200
LC P6KE75	69.4	80.6	1.0	62.44	5.0	5.5	5.5	108.0	50	200
LC P6KE82	75.8	88.2	1.0	68.27	5.0	5.1	5.1	118.0	50	200
LC P6KE91	84.2	97.8	1.0	75.76	5.0	4.5	4.5	131.8	50	400
LC P6KE100	92.5	107.5	1.0	83.25	5.0	4.2	4.2	144.0	50	400
LC P6KE110	101.8	118.3	1.0	91.58	5.0	3.8	3.8	158.0	50	400
LC P6KE120	111.0	129.0	1.0	99.90	5.0	3.5	3.5	173.0	50	400
LC P6KE130	120.2	139.8	1.0	108.2	5.0	3.2	3.2	187.0	50	400
LC P6KE150	138.8	161.3	1.0	112.4	5.0	2.8	2.8	215.0	50	600
LC P6KE160	148.0	172.0	1.0	119.9	5.0	2.6	2.6	230.0	50	600
LC P6KE170	157.2	182.8	1.0	141.5	5.0	2.5	2.5	244.0	50	600
LC P6KE180	166.5	193.5	1.0	149.9	5.0	2.3	2.3	258.0	50	600
LC P6KE200	185.0	215.0	1.0	170.0	5.0	2.1	2.1	287.0	50	600
LC P6KE220	203.5	236.5	1.0	183.2	5.0	1.75	1.75	344.0	50	1000
LC P6KE250	231.2	268.8	1.0	208.2	5.0	1.67	1.67	360.0	50	1000
LC P6KE300	277.5	322.5	1.0	249.8	5.0	1.40	1.40	430.0	50	1000
LC P6KE350	323.7	376.3	1.0	291.4	5.0	1.20	1.20	504.0	50	1000

NOTE 1: The SAC & LC P6KE series are a low capacitance silicon transient voltage suppressor for data or signal lines. It is designed for commercial and industrial applications. This series offers pricing, size, and capacitance advantages. This series employs a standard TVS in series with a rectifier which reduces the effective capacitance up through 70MHz with a minimum amount of signal loss or deformation. If bi-directional transient protection capability is required, two low capacitance TVS must be used in parallel, opposite in polarity for complete AC protection.

2: The SAC & LC P6KE series of low capacitance silicon transient voltage suppressors, rated at 500 , 600 watts, provides board level protection for data or signal lines from the damaging effects of electrostatic discharge(ESD), and electromagnetic pulse(EMP).It will clamp the inductive overshoot voltage caused by very fast impulse rise times. The low capacitance assures minimum signal attenuation.

3: A TVS is normally selected according to the reverse " Stand Off Voltage" (V_R) which should be equal to or greater than the DC or continuous peak operating voltage level

4: For Bi-directional use C suffix for 10% tolerance, CA suffix for 5% tolerance



TRANSIENT VOLTAGE SUPPRESSORS

P6KE /P6KECA Series (6.8V-440V) 600WATTS / Case : DO-15 Outline : 3

OPERATING TEMPERATURE -55°C TO +175°C

TYPE	Breakdown Voltage		Working Peak Reverse Voltage V_{RRM} (Volts)	Maximum Reverse Leakage at V_{RRM} IR(μ A)	Maximum Reverse Current I_{RSM} (Amps)	MAX. Clamping Voltage V_{RWM} (Volts)	Maximum Temperature Coefficient of V_{RR} (%/°C)	
	V_{RR} (Volts)							@IT (mA)
	MIN	MAX						
P6KE6.8(C)	6.12	7.48	10	5.50	1000	56	10.8	0.057
P6KE6.8(C)A	6.45	7.14	10	5.80	1000	57	10.5	0.057
P6KE7.5(C)	6.75	8.25	10	6.05	500	51	11.7	0.061
P6KE7.5(C)A	7.13	7.88	10	6.40	500	53	11.3	0.061
P6KE8.2(C)	7.38	9.02	10	6.63	200	48	12.5	0.065
P6KE8.2(C)A	7.79	8.61	10	7.02	200	50	12.1	0.065
P6KE9.1(C)	8.19	10.0	1.0	7.37	50	44	13.8	0.068
P6KE9.1(C)A	8.65	9.55	1.0	7.78	50	45	13.4	0.068
P6KE10(C)	9.00	11.0	1.0	8.10	10	40	15.0	0.073
P6KE10(C)A	9.50	10.5	1.0	8.55	10	41	14.5	0.073
P6KE11(C)	9.90	12.1	1.0	8.92	5.0	37	16.2	0.075
P6KE11(C)A	10.5	11.6	1.0	9.40	5.0	38	15.6	0.075
P6KE12(C)	10.8	13.2	1.0	9.72	5.0	35	17.3	0.078
P6KE12(C)A	11.4	12.6	1.0	10.2	5.0	36	16.7	0.078
P6KE13(C)	11.7	14.3	1.0	10.5	5.0	32	19.0	0.081
P6KE13(C)A	12.4	13.7	1.0	11.1	5.0	33	18.2	0.081
P6KE15(C)	13.5	16.5	1.0	12.1	5.0	27	22.0	0.084
P6KE15(C)A	14.3	15.8	1.0	12.8	5.0	28	21.2	0.084
P6KE16(C)	14.4	17.6	1.0	12.9	5.0	26	23.5	0.086
P6KE16(C)A	15.2	16.8	1.0	13.6	5.0	27	22.5	0.086
P6KE18(C)	16.2	19.8	1.0	14.5	5.0	23	26.5	0.088
P6KE18(C)A	17.1	18.9	1.0	15.3	5.0	24	25.2	0.088
P6KE20(C)	18.0	22.0	1.0	16.2	5.0	21	29.1	0.090
P6KE20(C)A	19.0	21.0	1.0	17.1	5.0	22	27.7	0.090
P6KE22(C)	19.8	24.2	1.0	17.8	5.0	19	31.9	0.092
P6KE22(C)A	20.9	23.1	1.0	18.8	5.0	20	30.6	0.092
P6KE24(C)	21.6	26.4	1.0	19.4	5.0	17	34.7	0.094
P6KE24(C)A	22.8	25.2	1.0	20.5	5.0	18	33.2	0.094
P6KE27(C)	24.3	29.7	1.0	21.8	5.0	15	39.1	0.096
P6KE27(C)A	25.7	28.4	1.0	23.1	5.0	16	37.5	0.096
P6KE30(C)	27.0	33.0	1.0	24.3	5.0	14	43.5	0.097
P6KE30(C)A	28.5	31.5	1.0	25.6	5.0	14.4	41.4	0.097
P6KE33(C)	29.7	36.3	1.0	26.8	5.0	12.6	47.7	0.098
P6KE33(C)A	31.4	34.7	1.0	28.2	5.0	13.2	45.7	0.098
P6KE36(C)	32.4	39.6	1.0	29.1	5.0	11.6	52.0	0.099
P6KE36(C)A	34.2	37.8	1.0	30.8	5.0	12.0	49.9	0.099
P6KE39(C)	35.1	42.9	1.0	31.6	5.0	10.6	56.4	0.100
P6KE39(C)A	37.1	41.0	1.0	33.3	5.0	11.2	53.9	0.100
P6KE43(C)	38.7	47.3	1.0	34.8	5.0	9.6	61.9	0.101
P6KE43(C)A	40.9	45.2	1.0	36.8	5.0	10.1	59.3	0.101
P6KE47(C)	42.3	51.7	1.0	38.1	5.0	8.9	67.8	0.101
P6KE47(C)A	44.7	49.4	1.0	40.2	5.0	9.3	64.8	0.101
P6KE51(C)	45.9	56.1	1.0	41.3	5.0	8.2	73.5	0.102
P6KE51(C)A	48.5	53.6	1.0	43.6	5.0	8.6	70.1	0.102
P6KE56(C)	50.4	61.6	1.0	45.4	5.0	7.4	80.5	0.103
P6KE56(C)A	53.2	58.8	1.0	47.8	5.0	7.8	77.0	0.103
P6KE62(C)	55.8	68.2	1.0	50.2	5.0	6.8	89.0	0.104
P6KE62(C)A	58.9	65.1	1.0	53.0	5.0	7.1	85.0	0.104
P6KE68(C)	61.2	74.8	1.0	55.1	5.0	6.1	98.0	0.104
P6KE68(C)A	64.6	71.4	1.0	58.1	5.0	6.5	92.0	0.104
P6KE75(C)	67.5	82.5	1.0	60.7	5.0	5.5	108.0	0.105
P6KE75(C)A	71.3	78.8	1.0	64.1	5.0	5.8	103.0	0.105
P6KE82(C)	73.8	90.2	1.0	66.4	5.0	5.1	118.0	0.105
P6KE82(C)A	77.9	86.1	1.0	70.1	5.0	5.3	113.0	0.105
P6KE91(C)	81.9	100.0	1.0	73.7	5.0	4.5	131.8	0.106
P6KE91(C)A	86.5	95.50	1.0	77.8	5.0	4.8	125.0	0.106
P6KE100(C)	90.0	110.0	1.0	81.0	5.0	4.2	144.0	0.106
P6KE100(C)A	95.0	105.0	1.0	85.5	5.0	4.4	137.0	0.106
P6KE110(C)	99.0	121.0	1.0	89.2	5.0	3.8	158.0	0.107
P6KE110(C)A	105.0	116.0	1.0	94.0	5.0	4.0	152.0	0.107
P6KE120(C)	108.0	132.0	1.0	97.2	5.0	3.5	173.0	0.107
P6KE120(C)A	114.0	126.0	1.0	102.0	5.0	3.6	165.0	0.107
P6KE130(C)	117.0	143.0	1.0	105.0	5.0	3.2	187.0	0.107
P6KE130(C)A	124.0	137.0	1.0	111.0	5.0	3.3	179.0	0.107
P6KE150(C)	135.0	165.0	1.0	121.0	5.0	2.8	215.0	0.108
P6KE150(C)A	143.0	158.0	1.0	128.0	5.0	2.9	207.0	0.108
P6KE160(C)	144.0	176.0	1.0	130.0	5.0	2.6	230.0	0.108
P6KE160(C)A	152.0	168.0	1.0	136.0	5.0	2.7	219.0	0.108
P6KE170(C)	153.0	187.0	1.0	138.0	5.0	2.5	244.0	0.108
P6KE170(C)A	162.0	179.0	1.0	145.0	5.0	2.6	234.0	0.108
P6KE180(C)	162.0	198.0	1.0	146.0	5.0	2.3	258.0	0.108
P6KE180(C)A	171.0	189.0	1.0	154.0	5.0	2.4	246.0	0.108
P6KE200(C)	180.0	220.0	1.0	162.0	5.0	2.1	287.0	0.108
P6KE200(C)A	190.0	210.0	1.0	171.0	5.0	2.2	274.0	0.108
P6KE220(C)	198.0	242.0	1.0	175.0	5.0	1.75	344.0	0.108
P6KE220(C)A	209.0	231.0	1.0	185.0	5.0	1.83	328.0	0.108
P6KE250(C)	225.0	275.0	1.0	202.0	5.0	1.67	360.0	0.110
P6KE250(C)A	237.0	263.0	1.0	214.0	5.0	1.75	344.0	0.110
P6KE300(C)	270.0	330.0	1.0	243.0	5.0	1.4	430.0	0.110
P6KE300(C)A	285.0	315.0	1.0	256.0	5.0	1.45	414.0	0.110
P6KE350(C)	315.0	385.0	1.0	284.0	5.0	1.2	504.0	0.110
P6KE350(C)A	332.0	368.0	1.0	300.0	5.0	1.25	482.0	0.110
P6KE400(C)	360.0	440.0	1.0	324.0	5.0	1.05	574.0	0.110
P6KE400(C)A	380.0	420.0	1.0	342.0	5.0	1.1	548.0	0.110
P6KE440(C)	396.0	484.0	1.0	356.0	5.0	0.95	630.0	0.113
P6KE440(C)A	418.0	462.0	1.0	376.0	5.0	1.00	600.0	0.113

NOTE : 1. $V_F=3.5$ V at $I_F=50$ A(P6KE6.8 thru P6KE200A) , $V_F=6.5$ V at $I_F=50$ A(P6KE220 thru P6KE440A)
on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle = 4 Pulses per Minute Maximum
2. For bipolar types with V_R of 10 volts and under , the I_R limit is doubled.

TRANSIENT VOLTAGE SUPPRESSORS

1.5KE / 1.5KECA Series (6.8V-440V) 1500WATTS / Case : DO-201AD Outline : 4 OPERATING TEMPERATURE -55°C TO +175°C

TYPE	GENERAL PART NUMBER	Breakdown V_{BR} (Volts)		@IT (mA)	Working Peak Reverse Voltage V_{RWM} (Volts)	Maximum Reverse Leakage @ V_{RWM} I_R (μA)	Max Reverse Surge Current I_{RSM} (AMPS)	Max Clamping Voltage V_{RS} (Volts)	Maximum Temperature Coefficient of V_{BR} (%C) V_{RSM} (Volts)
		Min	Max						
1N6267	1.5KE6.8(C)	6.12	7.48	10	5.50	1000	139	10.8	0.057
1N6267A	1.5KE6.8(C)A	6.45	7.14	10	5.80	1000	143	10.5	0.057
1N6268	1.5KE7.5(C)	6.75	8.25	10	6.05	500	128	11.7	0.061
1N6268A	1.5KE7.5(C)A	7.13	7.88	10	6.40	500	132	11.3	0.061
1N6269	1.5KE8.2(C)	7.38	9.02	10	6.63	200	120	12.5	0.065
1N6269A	1.5KE8.2(C)A	7.79	8.61	10	7.02	200	124	12.1	0.065
1N6270	1.5KE9.1(C)	8.19	10.0	1.0	7.37	50	109	13.8	0.068
1N6270A	1.5KE9.1(C)A	8.65	9.55	1.0	7.78	50	112	13.4	0.068
1N6271	1.5KE10(C)	9.00	11.0	1.0	8.10	10	100	15.0	0.073
1N6271A	1.5KE10(C)A	9.50	10.5	1.0	8.55	10	103	14.5	0.073
1N6272	1.5KE11(C)	9.90	12.1	1.0	8.92	5.0	93.0	16.2	0.075
1N6272A	1.5KE11(C)A	10.5	11.6	1.0	9.40	5.0	96.0	15.6	0.075
1N6273	1.5KE12(C)	10.8	13.2	1.0	9.72	5.0	87.0	17.3	0.078
1N6273A	1.5KE12(C)A	11.4	12.6	1.0	10.2	5.0	90.0	16.7	0.078
1N6274	1.5KE13(C)	11.7	14.3	1.0	10.5	5.0	79.0	19.0	0.081
1N6274A	1.5KE13(C)A	12.4	13.7	1.0	11.1	5.0	82.0	18.2	0.081
1N6275	1.5KE15(C)	13.5	16.5	1.0	12.1	5.0	68.0	22.0	0.084
1N6275A	1.5KE15(C)A	14.3	15.8	1.0	12.8	5.0	71.0	21.2	0.084
1N6276	1.5KE16(C)	14.4	17.6	1.0	12.9	5.0	64.0	23.5	0.086
1N6276A	1.5KE16(C)A	15.2	16.8	1.0	13.6	5.0	67.0	22.5	0.086
1N6277	1.5KE18(C)	16.2	19.8	1.0	14.5	5.0	56.5	26.5	0.088
1N6277A	1.5KE18(C)A	17.1	18.9	1.0	15.3	5.0	59.5	25.2	0.088
1N6278	1.5KE20(C)	18.0	22.0	1.0	16.2	5.0	51.5	29.1	0.090
1N6278A	1.5KE20(C)A	19.0	21.0	1.0	17.1	5.0	54.0	27.7	0.090
1N6279	1.5KE22(C)	19.8	24.2	1.0	17.8	5.0	47.0	31.9	0.092
1N6279A	1.5KE22(C)A	20.9	23.1	1.0	18.8	5.0	49.0	30.6	0.092
1N6280	1.5KE24(C)	21.6	26.4	1.0	19.4	5.0	43.0	34.7	0.094
1N6280A	1.5KE24(C)A	22.8	25.2	1.0	20.5	5.0	45.0	33.2	0.094
1N6281	1.5KE27(C)	24.3	29.7	1.0	21.8	5.0	38.5	39.1	0.096
1N6281A	1.5KE27(C)A	25.7	28.4	1.0	23.1	5.0	40.0	37.5	0.096
1N6282	1.5KE30(C)	27.0	33.0	1.0	24.3	5.0	34.5	43.5	0.097
1N6282A	1.5KE30(C)A	28.5	31.5	1.0	25.6	5.0	36.0	41.4	0.097
1N6283	1.5KE33(C)	64.6	36.3	1.0	26.8	5.0	31.5	47.7	0.098
1N6283A	1.5KE33(C)A	67.5	34.7	1.0	28.2	5.0	33.0	45.7	0.098
1N6284	1.5KE36(C)	71.3	39.6	1.0	29.1	5.0	29.0	52.0	0.099
1N6284A	1.5KE36(C)A	73.8	37.8	1.0	30.8	5.0	30.0	49.9	0.099
1N6285	1.5KE39(C)	77.9	42.9	1.0	31.6	5.0	26.5	56.4	0.100
1N6285A	1.5KE39(C)A	81.9	41.0	1.0	33.3	5.0	28.0	53.9	0.100
1N6286	1.5KE43(C)	86.5	47.3	1.0	34.8	5.0	24.0	61.9	0.101
1N6286A	1.5KE43(C)A	90.0	45.2	1.0	36.8	5.0	25.3	59.3	0.101
1N6287	1.5KE47(C)	95.0	51.7	1.0	36.1	5.0	22.2	67.8	0.101
1N6287A	1.5KE47(C)A	99.0	49.4	1.0	40.2	5.0	23.2	64.8	0.101
1N6288	1.5KE51(C)	45.9	56.1	1.0	41.3	5.0	20.4	73.5	0.102
1N6288A	1.5KE51(C)A	48.5	53.6	1.0	43.6	5.0	21.4	70.1	0.102
1N6289	1.5KE56(C)	50.4	61.8	1.0	45.4	5.0	18.6	80.5	0.103
1N6289A	1.5KE56(C)A	53.2	58.8	1.0	47.8	5.0	19.5	77.0	0.103
1N6290	1.5KE62(C)	55.8	68.2	1.0	50.2	5.0	16.9	89.0	0.104
1N6290A	1.5KE62(C)A	58.9	65.1	1.0	53.0	5.0	17.7	85.0	0.104
1N6291	1.5KE68(C)	61.2	74.8	1.0	55.1	5.0	15.3	98.0	0.104
1N6291A	1.5KE68(C)A	64.6	71.4	1.0	58.1	5.0	16.3	92.0	0.104
1N6292	1.5KE75(C)	67.5	82.5	1.0	60.7	5.0	13.9	108.0	0.105
1N6292A	1.5KE75(C)A	71.3	78.8	1.0	64.1	5.0	14.6	103.0	0.105
1N6293	1.5KE82(C)	73.8	90.2	1.0	66.4	5.0	12.7	118.0	0.105
1N6293A	1.5KE82(C)A	77.9	86.1	1.0	70.1	5.0	13.3	113.0	0.105
1N6294	1.5KE91(C)	81.9	100.0	1.0	73.7	5.0	11.4	131.8	0.106
1N6294A	1.5KE91(C)A	86.5	95.50	1.0	77.8	5.0	12.0	125.0	0.106
1N6295	1.5KE100(C)	90.0	110.0	1.0	81.0	5.0	10.4	144.0	0.106
1N6295A	1.5KE100(C)A	95.0	105.0	1.0	85.5	5.0	11.0	137.0	0.106
1N6296	1.5KE110(C)	99.0	121.0	1.0	89.2	5.0	9.5	158.0	0.107
1N6296A	1.5KE110(C)A	106.0	116.0	1.0	94.0	5.0	9.9	152.0	0.107
1N6297	1.5KE120(C)	108.0	132.0	1.0	97.2	5.0	8.7	173.0	0.107
1N6297A	1.5KE120(C)A	114.0	126.0	1.0	102.0	5.0	9.1	165.0	0.107
1N6298	1.5KE130(C)	117.0	143.0	1.0	106.0	5.0	8.0	187.0	0.107
1N6298A	1.5KE130(C)A	124.0	137.0	1.0	111.0	5.0	8.4	179.0	0.107
1N6299	1.5KE150(C)	136.0	165.0	1.0	121.0	5.0	7.0	215.0	0.108
1N6299A	1.5KE150(C)A	143.0	158.0	1.0	128.0	5.0	7.2	207.0	0.108
1N6300	1.5KE160(C)	144.0	176.0	1.0	130.0	5.0	6.5	230.0	0.108
1N6300A	1.5KE160(C)A	152.0	168.0	1.0	136.0	5.0	6.8	219.0	0.108
1N6301	1.5KE170(C)	153.0	187.0	1.0	138.0	5.0	6.2	244.0	0.108
1N6301A	1.5KE170(C)A	162.0	179.0	1.0	145.0	5.0	6.4	234.0	0.108
1N6302	1.5KE180(C)	162.0	198.0	1.0	146.0	5.0	5.8	258.0	0.108
1N6302A	1.5KE180(C)A	171.0	189.0	1.0	154.0	5.0	6.1	246.0	0.108
1N6303	1.5KE200(C)	180.0	220.0	1.0	162.0	5.0	5.2	287.0	0.108
1N6303A	1.5KE200(C)A	190.0	210.0	1.0	171.0	5.0	5.5	274.0	0.108
	1.5KE220(C)	196.0	242.0	1.0	175.0	5.0	4.3	344.0	0.108
	1.5KE220(C)A	209.0	231.0	1.0	185.0	5.0	4.6	328.0	0.108
	1.5KE250(C)	225.0	275.0	1.0	202.0	5.0	4.2	360.0	0.110
	1.5KE250(C)A	237.0	263.0	1.0	214.0	5.0	4.4	344.0	0.110
	1.5KE300(C)	270.0	330.0	1.0	243.0	5.0	3.5	430.0	0.110
	1.5KE300(C)A	285.0	315.0	1.0	256.0	5.0	3.6	414.0	0.110
	1.5KE350(C)	315.0	385.0	1.0	284.0	5.0	3.0	504.0	0.110
	1.5KE350(C)A	333.0	368.0	1.0	300.0	5.0	3.1	482.0	0.110
	1.5KE400(C)	360.0	440.0	1.0	324.0	5.0	2.6	574.0	0.110
	1.5KE400(C)A	380.0	420.0	1.0	342.0	5.0	2.7	548.0	0.110
	1.5KE440(C)	396.0	484.0	1.0	356.0	5.0	2.4	631.0	0.110
	1.5KE440(C)A	418.0	462.0	1.0	376.0	5.0	2.5	602.0	0.110

NOTE : 1. $V_F=3.5$ V at $I_F=100$ A (1.5KE6.8 thru 1.5KE200A) , $V_F=6.5$ V at $I_F=100$ A (1.5KE220 thru 1.5KE440A)
on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle x 4 Pulses per Minute Maximum
2. For bipolar types with V_R of 10 volts and under , the I_R limit is doubled.
3. For Bi-directional use C suffix for 10% tolerance, CA suffix for 5% tolerance



TRANSIENT VOLTAGE SUPPRESSORS

5KP CA Series (6.8V-222V) 5000WATTS / Case : P-6 Outline : 5

OPERATING TEMPERATURE -55°C TO +175°C

TYPE	Breakdown Voltage V_{BR} (Volts)		@IT (mA)	Working Peak Reverse Voltage V_{RSM} (Volts)	Maximum Reverse Leakage at V_{RSM} I_R (µA)	Maximum Reverse Current I_{RSM} (Amps)	MAX. Clamping Voltage V_{RSM} (Volts)	Maximum Temperature Coefficient of V_{BR} (%/°C)
	MIN	MAX						
5KP5.0(C)	6.40	7.30	50	5.0	2000	520	9.6	0.057
5KP5.0(C)A	6.40	7.00	50	5.0	2000	543	9.2	0.057
5KP6.0(C)	6.67	8.15	50	6.0	5000	439	11.4	0.061
5KP6.0(C)A	6.67	7.37	50	6.0	5000	485	10.3	0.061
5KP6.5(C)	7.22	8.82	50	6.5	2000	407	12.3	0.065
5KP6.5(C)A	7.22	7.98	50	6.5	2000	447	11.2	0.065
5KP7.0(C)	7.78	9.51	50	7.0	1000	378	13.3	0.068
5KP7.0(C)A	7.78	8.60	50	7.0	1000	417	12.0	0.068
5KP7.5(C)	8.33	10.2	5.0	7.5	250	350	14.3	0.073
5KP7.5(C)A	8.33	9.21	5.0	7.5	250	388	12.9	0.073
5KP8.0(C)	8.89	10.9	5.0	8.0	150	333	15.0	0.075
5KP8.0(C)A	8.89	9.83	5.0	8.0	150	367	13.6	0.075
5KP8.5(C)	9.44	11.5	5.0	8.5	50	314	15.9	0.078
5KP8.5(C)A	9.44	10.4	5.0	8.5	50	347	14.4	0.078
5KP9.0(C)	10.0	12.2	5.0	9.0	20	295	16.9	0.081
5KP9.0(C)A	10.0	11.1	5.0	9.0	20	325	15.4	0.081
5KP10(C)	11.1	13.6	5.0	10.0	15	266	18.8	0.084
5KP10(C)A	11.1	12.3	5.0	10.0	15	294	17.0	0.084
5KP11(C)	12.2	14.9	5.0	11.0	10	249	20.1	0.086
5KP11(C)A	12.2	13.5	5.0	11.0	10	274	18.2	0.086
5KP12(C)	13.3	16.3	5.0	12.0	10	227	22.0	0.088
5KP12(C)A	13.3	14.7	5.0	12.0	10	251	19.9	0.088
5KP13(C)	14.4	17.6	5.0	13.0	10	210	23.8	0.090
5KP13(C)A	14.4	15.9	5.0	13.0	10	232	21.5	0.090
5KP14(C)	15.6	19.1	5.0	14.0	10	194	25.8	0.092
5KP14(C)A	15.6	17.2	5.0	14.0	10	215	23.2	0.092
5KP15(C)	16.7	20.4	5.0	15.0	10	188	26.9	0.094
5KP15(C)A	16.7	18.5	5.0	15.0	10	206	24.4	0.094
5KP16(C)	17.8	21.8	5.0	16.0	10	176	28.8	0.096
5KP16(C)A	17.8	19.7	5.0	16.0	10	176	28.8	0.096
5KP17(C)	18.9	23.1	5.0	17.0	10	164	30.5	0.097
5KP17(C)A	18.9	20.9	5.0	17.0	10	161	27.6	0.097
5KP18(C)	20.0	24.4	5.0	18.0	10	155	32.2	0.098
5KP18(C)A	20.0	22.1	5.0	18.0	10	172	29.2	0.098
5KP20(C)	22.2	27.1	5.0	20.0	10	139	35.8	0.099
5KP20(C)A	22.2	24.5	5.0	20.0	10	154	32.4	0.099
5KP22(C)	24.4	29.8	5.0	22.0	10	127	39.4	0.100
5KP22(C)A	24.4	26.9	5.0	22.0	10	141	35.5	0.100
5KP24(C)	26.7	32.6	5.0	24.0	10	116	43.0	0.101
5KP24(C)A	26.7	29.5	5.0	24.0	10	128	38.9	0.101
5KP26(C)	28.9	35.3	5.0	26.0	10	107	46.6	0.101
5KP26(C)A	28.9	31.9	5.0	26.0	10	119	42.1	0.101
5KP28(C)	31.1	38.0	5.0	28.0	10	99	50.1	0.102
5KP28(C)A	31.0	34.4	5.0	28.0	10	110	45.4	0.102
5KP30(C)	33.3	40.7	5.0	30.0	10	93	53.5	0.103
5KP30(C)A	33.3	36.8	5.0	30.0	10	103	48.4	0.103
5KP33(C)	36.7	44.9	5.0	33.0	10	85	59.0	0.104
5KP33(C)A	36.7	40.6	5.0	33.0	10	94	53.3	0.104
5KP36(C)	40.0	48.9	5.0	36.0	10	78	64.3	0.104
5KP36(C)A	40.0	44.2	5.0	36.0	10	85	58.1	0.104
5KP40(C)	44.4	54.3	5.0	40.0	10	70	71.4	0.105
5KP40(C)A	44.4	49.1	5.0	40.0	10	78	64.5	0.105
5KP43(C)	47.8	58.4	5.0	43.0	10	65	76.7	0.105
5KP43(C)A	47.8	52.8	5.0	43.0	10	72	69.4	0.105
5KP45(C)	50.0	61.1	5.0	45.0	10	62	80.3	0.106
5KP45(C)A	50.0	55.3	5.0	45.0	10	69	72.7	0.106
5KP48(C)	53.3	65.2	5.0	48.0	10	58	85.5	0.106
5KP48(C)A	53.3	58.9	5.0	48.0	10	65	77.4	0.106
5KP51(C)	56.7	69.3	5.0	51.0	10	55	91.1	0.107
5KP51(C)A	56.7	62.7	5.0	51.0	10	61	82.4	0.107
5KP54(C)	60.0	73.3	5.0	54.0	10	52	96.3	0.107
5KP54(C)A	60.0	66.3	5.0	54.0	10	57	87.1	0.107
5KP58(C)	64.4	78.7	5.0	58.0	10	49	103.0	0.107
5KP58(C)A	64.4	71.2	5.0	58.0	10	53	93.6	0.107
5KP60(C)	66.7	81.5	5.0	60.0	10	47	107.0	0.108
5KP60(C)A	66.7	73.7	5.0	60.0	10	52	96.8	0.108
5KP64(C)	71.1	96.9	5.0	64.0	10	44	114.0	0.108
5KP64(C)A	71.1	78.6	5.0	64.0	10	49	103.0	0.108
5KP70(C)	77.6	95.1	5.0	70.0	10	40	125.0	0.108
5KP70(C)A	77.8	86.0	5.0	70.0	10	44	113.0	0.108
5KP75(C)	83.3	102.0	5.0	75.0	10	37	134.0	0.108
5KP75(C)A	83.3	92.1	5.0	75.0	10	41	121.0	0.108
5KP78(C)	86.7	106.0	5.0	78.0	10	36	126.0	0.108
5KP78(C)A	86.7	95.8	5.0	78.0	10	40	126.0	0.108
5KP85(C)	94.9	115.0	5.0	85.0	10	33	151.0	0.108
5KP85(C)A	94.4	104.0	5.0	85.0	10	36	137.0	0.110
5KP90(C)	100	122.0	5.0	90.0	10	31	160.0	0.110
5KP90(C)A	100	111.0	5.0	90.0	10	34	146.0	0.110
5KP100(C)	111	136.0	5.0	100.0	10	28	179.0	0.110
5KP100(C)A	111	123	5.0	100.0	10	31	162.0	0.110
5KP110(C)	122	149.0	5.0	110.0	10	26	196.0	0.112
5KP110(C)A	122	135	5.0	110.0	10	28	177.0	0.112
5KP120(C)	133	163.0	5.0	120.0	10	23	215.0	0.112
5KP120(C)A	133	148.0	5.0	120.0	10	26	194.0	0.112
5KP150(C)	166	204.0	5.0	150.0	10	19	269.0	0.112
5KP150(C)A	166	186.0	5.0	150.0	10	21	242.0	0.112
5KP160(C)	178	217.0	5.0	160.0	10	17	285.0	0.112
5KP160(C)A	178	196.0	5.0	160.0	10	19	258.0	0.112
5KP170(C)	189	230.0	5.0	170.0	10	17	302.0	0.112
5KP170(C)A	189	208.0	5.0	170.0	10	18	273.0	0.112
5KP180(C)	200	245.0	5.0	180.0	10	16	322.0	0.112
5KP180(C)A	200	222.0	5.0	180.0	10	17	292.0	0.112

NOTE: 1. $V_f=3.5$ Volts max $I_f=100A$ for all types on 1/2 square .Equivalent Sine Wave. 2. $PW=8.3ms$, Duty Cycle = 4 Pluse per Minute Maximum ; For bipolar type with V_R 10 Volts and under ,the I_R limit is doubled. 3. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

P4SMAJ CA Series (5V-170V) 400WATTS / Case : SMA (DO-214AC) Outline : 47 OPERATING TEMPERATURE -55°C TO +175°C

DEVICE	DEVICE MARKING CODE		WORKING PEAK REVERSE VOLTAGE $V_{WM}(V)$	BREAKDOWN VOLTAGE $V_{(BR)}$ (VOLTS) at I_T		TEST CURRENT $I_T(mA)$	MAXIMUM Clamping VOLTAGE AT I_{PPM} VC(Volts)	MAX PEAK PULSE SURGE CURRENT I_{PPM} (Amps)	MAXIMUM REVERSE LEAKAGE AT V_{WM} $I_D(\mu A)$
	UNI	BI		MIN	MAX				
P4SMAJ5.0	AD	WD	5.0	6.40	7.81	10	9.6	31.3	800
P4SMAJ5.0A	AE	WE	5.0	6.40	7.08	10	9.2	32.6	800
P4SMAJ6.0	AF	WF	6.0	6.67	8.15	10	11.4	26.3	800
P4SMAJ6.0A	AG	WG	6.0	6.67	7.37	10	10.3	29.1	800
P4SMAJ6.5	AH	WH	6.5	7.22	8.82	10	12.3	24.4	500
P4SMAJ6.5A	AK	WK	6.5	7.22	7.98	10	11.2	26.8	500
P4SMAJ7.0	AL	WL	7.0	7.78	9.51	10	13.3	22.6	200
P4SMAJ7.0A	AM	WM	7.0	7.78	8.60	10	12.0	25.0	200
P4SMAJ7.5	AN	WN	7.5	8.33	10.3	1.0	14.3	21.0	100
P4SMAJ7.5A	AP	WP	7.5	8.33	9.21	1.0	12.9	23.3	100
P4SMAJ8.0	AQ	WQ	8.0	8.89	10.9	1.0	15.0	20.0	50.0
P4SMAJ8.0A	AR	WR	8.0	8.89	9.83	1.0	13.6	22.1	50.0
P4SMAJ8.5	AS	WS	8.5	9.44	11.5	1.0	15.9	18.9	10.0
P4SMAJ8.5A	AT	WT	8.5	9.44	10.4	1.0	14.4	20.8	10.0
P4SMAJ9.0	AU	WU	9.0	10.0	12.2	1.0	16.9	17.8	5.0
P4SMAJ9.0A	AV	WV	9.0	10.0	11.1	1.0	15.4	19.5	5.0
P4SMAJ10	AW	WW	10.0	11.1	13.6	1.0	18.8	16.0	5.0
P4SMAJ10A	AX	WX	10.0	11.1	12.3	1.0	17.0	17.6	5.0
P4SMAJ11	AY	WY	11.0	12.2	14.9	1.0	20.1	14.9	5.0
P4SMAJ11A	AZ	WZ	11.0	12.2	13.5	1.0	18.2	16.5	5.0
P4SMAJ12	BD	XD	12.0	13.3	16.3	1.0	22.0	13.6	5.0
P4SMAJ12A	BE	XE	12.0	13.3	14.7	1.0	19.9	15.1	5.0
P4SMAJ13	BF	XF	13.0	14.4	17.6	1.0	23.8	12.6	5.0
P4SMAJ13A	BG	XG	13.0	14.4	15.9	1.0	21.5	14.0	5.0
P4SMAJ14	BH	XH	14.0	15.6	19.1	1.0	25.8	11.6	5.0
P4SMAJ14A	BK	XK	14.0	15.6	17.2	1.0	23.2	12.9	5.0
P4SMAJ15	BL	XL	15.0	16.7	20.4	1.0	26.9	11.2	5.0
P4SMAJ15A	BM	XM	15.0	16.7	18.5	1.0	24.4	12.3	5.0
P4SMAJ16	BN	XN	16.0	17.8	21.8	1.0	28.8	10.4	5.0
P4SMAJ16A	BP	XP	16.0	17.8	19.7	1.0	26.0	11.5	5.0
P4SMAJ17	BQ	XQ	17.0	18.9	23.1	1.0	30.5	9.8	5.0
P4SMAJ17A	BR	XR	17.0	18.9	20.9	1.0	27.6	10.9	5.0
P4SMAJ18	BS	XS	18.0	20.0	24.4	1.0	32.2	9.3	5.0
P4SMAJ18A	BT	XT	18.0	20.0	22.1	1.0	29.2	10.3	5.0
P4SMAJ20	BU	XU	20.0	22.2	27.1	1.0	35.8	8.4	5.0
P4SMAJ20A	BV	XV	20.0	22.2	24.5	1.0	32.4	9.3	5.0
P4SMAJ22	BW	XW	22.0	24.4	29.8	1.0	39.4	7.6	5.0
P4SMAJ22A	BX	XX	22.0	24.4	26.9	1.0	35.5	8.5	5.0
P4SMAJ24	BY	XY	24.0	26.7	32.6	1.0	43.0	7.0	5.0
P4SMAJ24A	BZ	XZ	24.0	26.7	29.5	1.0	38.9	7.7	5.0
P4SMAJ26	CD	YD	26.0	28.9	35.3	1.0	46.6	6.4	5.0
P4SMAJ26A	CE	YE	26.0	28.9	31.9	1.0	42.1	7.1	5.0
P4SMAJ28	CF	YF	28.0	31.1	38.0	1.0	50.1	6.0	5.0
P4SMAJ28A	CG	YG	28.0	31.1	34.4	1.0	45.4	6.6	5.0
P4SMAJ30	CH	YH	30.0	33.3	40.7	1.0	53.5	5.6	5.0
P4SMAJ30A	CK	YK	30.0	33.3	36.8	1.0	48.4	6.2	5.0
P4SMAJ33	CL	YL	33.0	36.7	44.9	1.0	59.0	5.1	5.0
P4SMAJ33A	CM	YM	33.0	36.7	40.6	1.0	53.3	5.6	5.0
P4SMAJ36	CN	YN	36.0	40.0	48.9	1.0	64.3	4.7	5.0
P4SMAJ36A	CP	YP	36.0	40.0	44.2	1.0	58.1	5.2	5.0
P4SMAJ40	CQ	YQ	40.0	44.4	54.3	1.0	71.4	4.2	5.0
P4SMAJ40A	CR	YR	40.0	44.4	49.1	1.0	64.5	4.7	5.0
P4SMAJ43	CS	YS	43.0	47.8	58.4	1.0	76.7	3.9	5.0
P4SMAJ43A	CT	YT	43.0	47.8	52.8	1.0	69.4	4.3	5.0
P4SMAJ45	CU	YU	45.0	50.0	61.1	1.0	80.3	3.7	5.0
P4SMAJ45A	CV	YV	45	50.0	55.3	1.0	72.7	4.1	5.0
P4SMAJ48	CW	YW	48	53.3	65.1	1.0	85.5	3.5	5.0
P4SMAJ48A	CX	YX	48	53.3	58.9	1.0	77.4	3.9	5.0
P4SMAJ51	CY	YY	51	56.7	69.3	1.0	91.1	3.3	5.0
P4SMAJ51A	CZ	YZ	51	56.7	62.7	1.0	82.4	3.6	5.0
P4SMAJ54	RD	ZD	54	60.0	73.3	1.0	96.3	3.1	5.0
P4SMAJ54A	RE	ZE	54	60.0	66.3	1.0	87.1	3.4	5.0
P4SMAJ58	RF	ZF	58	64.4	78.7	1.0	103.0	2.9	5.0
P4SMAJ58A	RG	ZG	58	64.4	71.2	1.0	93.6	3.2	5.0
P4SMAJ60	RH	ZH	60	66.7	81.5	1.0	107.0	2.8	5.0
P4SMAJ60A	RK	ZK	60	66.7	73.7	1.0	96.8	3.1	5.0
P4SMAJ64	RL	ZL	64	71.1	86.4	1.0	114.0	2.6	5.0
P4SMAJ64A	RM	ZM	64	71.1	78.6	1.0	103.0	2.9	5.0
P4SMAJ70	RN	ZN	70	77.8	95.1	1.0	125.0	2.4	5.0
P4SMAJ70A	RP	ZP	70	77.8	86.0	1.0	113.0	2.7	5.0
P4SMAJ75	RQ	ZQ	75	83.3	102.0	1.0	134.0	2.2	5.0
P4SMAJ75A	RR	ZR	75	83.3	92.1	1.0	121.0	2.5	5.0
P4SMAJ78	RS	ZS	78	86.7	106.0	1.0	139.0	2.2	5.0
P4SMAJ78A	RT	ZT	78	86.7	95.8	1.0	126.0	2.4	5.0
P4SMAJ85	RU	ZU	85	94.4	115.0	1.0	151.0	2.0	5.0
P4SMAJ85A	RV	ZV	85	94.4	104.0	1.0	137.0	2.2	5.0
P4SMAJ90	RW	ZW	90	100	122.0	1.0	160.0	1.9	5.0
P4SMAJ90A	RX	ZX	90	100	111.0	1.0	146.0	2.1	5.0
P4SMAJ100	RY	ZY	100	111	136.0	1.0	179.0	1.7	5.0
P4SMAJ100A	RZ	ZZ	100	111	123.0	1.0	162.0	1.9	5.0
P4SMAJ110	SD	VD	110	122	149.0	1.0	196.0	1.5	5.0
P4SMAJ110A	SE	VE	110	122	135.0	1.0	177.0	1.7	5.0
P4SMAJ120	SF	VF	120	133	163.0	1.0	214.0	1.4	5.0
P4SMAJ120A	SG	VG	120	133	147.0	1.0	193.0	1.6	5.0
P4SMAJ130	SH	VH	130	144	176.0	1.0	231.0	1.3	5.0
P4SMAJ130A	SK	VK	130	144	159.0	1.0	209.0	1.4	5.0
P4SMAJ150	SL	VL	150	167	204.0	1.0	268.0	1.1	5.0
P4SMAJ150A	SM	VM	150	167	185.0	1.0	243.0	1.2	5.0
P4SMAJ160	SN	VN	160	178	218.0	1.0	287.0	1.0	5.0
P4SMAJ160A	SP	VP	160	178	197.0	1.0	259.0	1.2	5.0
P4SMAJ170	SQ	VQ	170	189	231.0	1.0	304.0	0.99	5.0
P4SMAJ170A	SR	VR	170	189	209.0	1.0	275.0	1.09	5.0

NOTE : 1. $V_T=3.5V$ at $I_T=25A$ on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle = 4 Pulses per Minute Maximum
 2. For Bipolar types with VR of 10 volts and under ,the IR limit is doubled 3. Mounted on 5.0mm² copper pads to each terminal.
 4. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

P6SMABJ CA Series (5V-170V) 600WATTS / Case : SMB (DO-214AA) Outline : 48 OPERATING TEMPERATURE -55°C TO +175°C

DEVICE	DEVICE MARKING CODE		WORKING PEAK REVERSE VOLTAGE V_{WM} (VOLTS)	BREAKDOWN VOLTAGE $V_{(BR)}$ (VOLTS) at I_T		TEST CURRENT I_T (mA)	MAXIMUM Clamping VOLTAGE AT I_{PPM} VC(Volts)	MAX PEAK PULSE SURGE CURRENT I_{PPM} (Amps)	MAXIMUM REVERSE LEAKAGE AT V_{WM} I_D (μ A)
	UNI	BI		MIN	MAX				
	P6SMBJ5.0	KD		AD	5.0				
P6SMBJ5.0A	KE	AE	5.0	6.40	7.07	10	9.2	65.2	800
P6SMBJ6.0	KF	AF	6.0	6.67	8.15	10	11.4	52.6	800
P6SMBJ6.0A	KG	AG	6.0	6.67	7.37	10	10.3	58.3	800
P6SMBJ6.5	KH	AH	6.5	7.22	8.82	10	12.3	48.8	500
P6SMBJ6.5A	KK	AK	6.5	7.22	7.98	10	11.2	53.6	500
P6SMBJ7.0	KL	AL	7.0	7.78	9.51	10	13.3	45.1	200
P6SMBJ7.0A	KM	AM	7.0	7.78	8.60	10	12.0	50.0	200
P6SMBJ7.5	KN	AN	7.5	8.33	10.2	1.0	14.3	42.0	100
P6SMBJ7.5A	KP	AP	7.5	8.33	9.21	1.0	12.9	46.5	100
P6SMBJ8.0	KO	AQ	8.0	8.89	10.9	1.0	15.0	40.0	50.0
P6SMBJ8.0A	KR	AR	8.0	8.89	9.83	1.0	13.6	44.1	50.0
P6SMBJ8.5	KS	AS	8.5	9.44	11.5	1.0	15.9	37.7	10.0
P6SMBJ8.5A	KT	AT	8.5	9.44	10.4	1.0	14.4	41.7	10.0
P6SMBJ9.0	KU	AU	9.0	10.0	12.2	1.0	16.9	35.5	5.0
P6SMBJ9.0A	KV	AV	9.0	10.0	11.1	1.0	15.4	39.0	5.0
P6SMBJ10	KW	AW	10.0	11.1	13.6	1.0	18.8	31.9	5.0
P6SMBJ10A	KX	AX	10.0	11.1	12.3	1.0	17.0	35.3	5.0
P6SMBJ11	KY	AY	11.0	12.2	14.9	1.0	20.1	29.9	5.0
P6SMBJ11A	KZ	AZ	11.0	12.2	13.5	1.0	18.2	33.0	5.0
P6SMBJ12	LD	BD	12.0	13.3	16.3	1.0	22.0	27.3	5.0
P6SMBJ12A	LE	BE	12.0	13.3	14.7	1.0	19.9	30.2	5.0
P6SMBJ13	LF	BF	13.0	14.4	17.6	1.0	23.8	25.2	5.0
P6SMBJ13A	LG	BG	13.0	14.4	15.9	1.0	21.5	27.9	5.0
P6SMBJ14	LH	BH	14.0	15.6	19.1	1.0	25.8	23.3	5.0
P6SMBJ14A	LK	BK	14.0	15.6	17.2	1.0	23.2	25.9	5.0
P6SMBJ15	LL	BL	15.0	16.7	20.4	1.0	26.9	22.3	5.0
P6SMBJ15A	LM	BM	15.0	16.7	18.5	1.0	24.4	24.6	5.0
P6SMBJ16	LN	BN	16.0	17.8	21.8	1.0	28.8	20.8	5.0
P6SMBJ16A	LP	BP	16.0	17.8	19.7	1.0	26.0	23.1	5.0
P6SMBJ17	LQ	BQ	17.0	18.9	23.1	1.0	30.5	19.7	5.0
P6SMBJ17A	LR	BR	17.0	18.9	20.9	1.0	27.6	21.7	5.0
P6SMBJ18	LS	BS	18.0	20.0	24.4	1.0	32.2	18.6	5.0
P6SMBJ18A	LT	BT	18.0	20.0	22.1	1.0	29.2	20.5	5.0
P6SMBJ20	LU	BU	20.0	22.2	27.1	1.0	35.8	16.8	5.0
P6SMBJ20A	LV	BV	20.0	22.2	24.5	1.0	32.4	18.5	5.0
P6SMBJ22	LW	BW	22.0	24.4	29.8	1.0	39.4	15.2	5.0
P6SMBJ22A	LX	BX	22.0	24.4	26.9	1.0	35.5	16.9	5.0
P6SMBJ24	LY	BY	24.0	26.7	32.6	1.0	43.0	14.0	5.0
P6SMBJ24A	LZ	BZ	24.0	26.7	29.5	1.0	38.9	15.4	5.0
P6SMBJ26	MD	CD	26.0	28.9	35.3	1.0	46.6	12.9	5.0
P6SMBJ26A	ME	CE	26.0	28.9	31.9	1.0	42.1	14.3	5.0
P6SMBJ28	MF	CF	28.0	31.1	38.0	1.0	50.0	12.0	5.0
P6SMBJ28A	MG	CG	28.0	31.1	34.4	1.0	45.4	13.2	5.0
P6SMBJ30	MH	CH	30.0	33.3	40.7	1.0	53.5	11.2	5.0
P6SMBJ30A	MK	CK	30.0	33.3	36.8	1.0	48.4	12.4	5.0
P6SMBJ33	ML	CL	33.0	36.7	44.9	1.0	59.0	10.2	5.0
P6SMBJ33A	MM	CM	33.0	36.7	40.6	1.0	53.3	11.3	5.0
P6SMBJ36	MN	CN	36.0	40.0	48.9	1.0	64.3	9.3	5.0
P6SMBJ36A	MP	CP	36.0	40.0	44.2	1.0	58.1	10.3	5.0
P6SMBJ40	MQ	CQ	40.0	44.4	54.3	1.0	71.4	8.4	5.0
P6SMBJ40A	MR	CR	40.0	44.4	49.1	1.0	64.5	9.3	5.0
P6SMBJ43	MS	CS	43.0	47.8	58.4	1.0	76.7	7.8	5.0
P6SMBJ43A	MT	CT	43.0	47.8	52.8	1.0	69.4	8.6	5.0
P6SMBJ45	MU	CU	45.0	50.0	61.1	1.0	80.3	7.5	5.0
P6SMBJ45A	MV	CV	45	50.0	55.3	1.0	72.7	8.3	5.0
P6SMBJ48	MW	CW	48	53.3	65.1	1.0	85.5	7.0	5.0
P6SMBJ48A	MX	CX	48	53.3	58.9	1.0	77.4	7.8	5.0
P6SMBJ51	MY	CY	51	56.7	69.3	1.0	91.1	6.6	5.0
P6SMBJ51A	MZ	CZ	51	56.7	62.7	1.0	82.4	7.3	5.0
P6SMBJ54	ND	DD	54	60.0	73.3	1.0	96.3	6.2	5.0
P6SMBJ54A	NE	DE	54	60.0	66.3	1.0	87.1	6.9	5.0
P6SMBJ58	NF	DF	58	64.4	78.7	1.0	103.0	5.8	5.0
P6SMBJ58A	NG	DG	58	64.4	71.2	1.0	93.6	6.4	5.0
P6SMBJ60	NH	DH	60	66.7	81.5	1.0	107.0	5.6	5.0
P6SMBJ60A	NK	DK	60	66.7	73.7	1.0	96.8	6.2	5.0
P6SMBJ64	NL	DL	64	71.1	86.9	1.0	114.0	5.3	5.0
P6SMBJ64A	NM	DM	64	71.1	78.6	1.0	103.0	5.8	5.0
P6SMBJ70	NN	DN	70	77.8	95.1	1.0	125.0	4.8	5.0
P6SMBJ70A	NP	DP	70	77.8	86.0	1.0	113.0	5.3	5.0
P6SMBJ75	NO	DQ	75	83.3	102.0	1.0	134.0	4.5	5.0
P6SMBJ75A	NR	DR	75	83.3	92.1	1.0	121.0	5.0	5.0
P6SMBJ78	NS	DS	78	86.7	106.0	1.0	139.0	4.3	5.0
P6SMBJ78A	NT	DT	78	86.7	95.8	1.0	126.0	4.8	5.0
P6SMBJ85	NU	DU	85	94.4	115.0	1.0	151.0	4.0	5.0
P6SMBJ85A	NV	DV	85	94.4	104.0	1.0	137.0	4.4	5.0
P6SMBJ90	NW	DW	90	100	122.0	1.0	160.0	3.8	5.0
P6SMBJ90A	NX	DX	90	100	111.0	1.0	146.0	4.1	5.0
P6SMBJ100	NY	DY	100	111	136.0	1.0	179.0	3.4	5.0
P6SMBJ100A	NZ	DZ	100	111	123.0	1.0	162.0	3.7	5.0
P6SMBJ110	PD	ED	110	122	149.0	1.0	196.0	3.1	5.0
P6SMBJ110A	PE	EE	110	122	135.0	1.0	177.0	3.4	5.0
P6SMBJ120	PF	EF	120	133	163.0	1.0	214.0	2.8	5.0
P6SMBJ120A	PG	EG	120	133	147.0	1.0	193.0	3.1	5.0
P6SMBJ130	PH	EH	130	144	176.0	1.0	231.0	2.6	5.0
P6SMBJ130A	PK	EK	130	144	159.0	1.0	209.0	2.9	5.0
P6SMBJ150	PL	EL	150	167	204.0	1.0	268.0	2.2	5.0
P6SMBJ150A	PM	EM	150	167	185.0	1.0	243.0	2.5	5.0
P6SMBJ160	PN	EN	160	178	218.0	1.0	287.0	2.1	5.0
P6SMBJ160A	PP	EP	160	178	197.0	1.0	259.0	2.3	5.0
P6SMBJ170	PQ	EQ	170	189	231.0	1.0	304.0	2.0	5.0
P6SMBJ170A	PR	ER	170	189	209.0	1.0	275.0	2.2	5.0

NOTE : 1. $V_F=3.5$ V on P6SMB5.0 thru 90 devices and $V_F=5.0$ V on P6SMB100 thru 170 devices at $I_T=25$ A on 1/2 Square or Equivalent Sine Wave. $PW=8.3$ ms, Duty Cycle = 4 Pulses per Minute Maximum 2. For Bipolar types with VR of 10 volts and under ,the IR limit is doubled 3. Mounted on 5.0mm² copper pads to each terminal. 4. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

1.5SMCJ CA Series (5V-170V) 1500WATTS / Case : SMC (DO-214AB) Outline : 49 OPERATING TEMPERATURE -55°C TO +175°C

DEVICE	DEVICE MARKING CODE		WORKING PEAK REVERSE VOLTAGE V _{WM} (VOLTS)	BREAKDOWN VOLTAGE V _(BR) (VOLTS) at I _T		TEST CURRENT I _T (mA)	MAXIMUM Clamping VOLTAGE AT I _{PPM} VC(Volts)	MAX PEAK PULSE SURGE CURRENT I _{PPM} (Amps)	MAXIMUM REVERSE LEAKAGE AT V _{WM} I _b (μA)
	UNI	BI		MIN	MAX				
1.5SMCJ5.0	GDD	BDD	5.0	6.40	7.82	10	9.6	156.3	800
1.5SMCJ5.0A	GDE	BDE	5.0	6.40	7.07	10	9.2	163.0	800
1.5SMCJ6.0	GDF	BDF	6.0	6.67	8.15	10	11.4	131.6	800
1.5SMCJ6.0A	GDG	BDG	6.0	6.67	7.37	10	10.3	145.6	800
1.5SMCJ6.5	GDH	BDH	6.5	7.22	8.82	10	12.3	122.0	500
1.5SMCJ6.5A	GDK	BDK	6.5	7.22	7.98	10	11.2	133.9	500
1.5SMCJ7.0	GDL	BDL	7.0	7.78	9.51	10	13.3	112.8	200
1.5SMCJ7.0A	GDM	BDM	7.0	7.78	8.60	10	12.0	125.0	200
1.5SMCJ7.5	GDN	BDN	7.5	8.33	10.2	1.0	14.3	104.9	100
1.5SMCJ7.5A	GDP	BDP	7.5	8.33	9.21	1.0	12.9	116.3	100
1.5SMCJ8.0	GDO	BDQ	8.0	8.89	10.9	1.0	15.0	100.0	50.0
1.5SMCJ8.0A	GDR	BDR	8.0	8.89	9.83	1.0	13.6	110.3	50.0
1.5SMCJ8.5	GDS	BDS	8.5	9.44	11.5	1.0	15.9	94.3	10.0
1.5SMCJ8.5A	GDT	BDT	8.5	9.44	10.4	1.0	14.4	104.2	10.0
1.5SMCJ9.0	GDU	BDU	9.0	10.0	12.2	1.0	16.9	88.8	5.0
1.5SMCJ9.0A	GDV	BDV	9.0	10.0	11.1	1.0	15.4	97.4	5.0
1.5SMCJ10	GDW	BDW	10.0	11.1	13.6	1.0	18.8	79.8	5.0
1.5SMCJ10A	GDX	BDX	10.0	11.1	12.3	1.0	17.0	88.2	5.0
1.5SMCJ11	GDY	BDY	11.0	12.2	14.9	1.0	20.1	74.6	5.0
1.5SMCJ11A	GDZ	BDZ	11.0	12.2	13.5	1.0	18.2	82.4	5.0
1.5SMCJ12	GED	BED	12.0	13.3	16.3	1.0	22.0	68.2	5.0
1.5SMCJ12A	GEE	BEE	12.0	13.3	14.7	1.0	19.9	75.4	5.0
1.5SMCJ13	GEF	BEF	13.0	14.4	17.6	1.0	23.8	63.0	5.0
1.5SMCJ13A	GEG	BEG	13.0	14.4	15.9	1.0	21.5	69.8	5.0
1.5SMCJ14	GEH	BEH	14.0	15.6	19.1	1.0	25.8	58.1	5.0
1.5SMCJ14A	GEK	BEK	14.0	15.6	17.2	1.0	23.2	64.7	5.0
1.5SMCJ15	GEL	BEL	15.0	16.7	20.4	1.0	26.9	55.8	5.0
1.5SMCJ15A	GEM	BEM	15.0	16.7	18.5	1.0	24.4	61.5	5.0
1.5SMCJ16	GEN	BEN	16.0	17.8	21.8	1.0	28.8	52.1	5.0
1.5SMCJ16A	GEP	BEP	16.0	17.8	19.7	1.0	26.0	57.7	5.0
1.5SMCJ17	GEQ	BEQ	17.0	18.9	23.1	1.0	30.5	49.2	5.0
1.5SMCJ17A	GER	BER	17.0	18.9	20.9	1.0	27.6	54.3	5.0
1.5SMCJ18	GES	BES	18.0	20.0	24.4	1.0	32.2	46.6	5.0
1.5SMCJ18A	GET	BET	18.0	20.0	22.1	1.0	29.2	51.4	5.0
1.5SMCJ20	GEU	BEU	20.0	22.2	27.1	1.0	35.8	41.9	5.0
1.5SMCJ20A	GEV	BEV	20.0	22.2	24.5	1.0	32.4	46.3	5.0
1.5SMCJ22	GEW	BEW	22.0	24.4	29.8	1.0	39.4	38.1	5.0
1.5SMCJ22A	GEX	BEX	22.0	24.4	26.9	1.0	35.5	42.3	5.0
1.5SMCJ24	GEY	BEY	24.0	26.7	32.6	1.0	43.0	34.9	5.0
1.5SMCJ24A	GEZ	BEZ	24.0	26.7	29.5	1.0	38.9	38.6	5.0
1.5SMCJ26	GFD	BFD	26.0	28.9	35.3	1.0	46.6	32.2	5.0
1.5SMCJ26A	GFE	BFE	26.0	28.9	31.9	1.0	42.1	35.6	5.0
1.5SMCJ28	GFF	BFF	28.0	31.1	38.0	1.0	50.0	30.0	5.0
1.5SMCJ28A	GFG	BFG	28.0	31.1	34.4	1.0	45.4	33.0	5.0
1.5SMCJ30	GFH	BFH	30.0	33.3	40.7	1.0	53.5	28.0	5.0
1.5SMCJ30A	GFK	BFK	30.0	33.3	36.8	1.0	48.4	31.0	5.0
1.5SMCJ33	GFL	BFL	33.0	36.7	44.9	1.0	59.0	25.4	5.0
1.5SMCJ33A	GFM	BFM	33.0	36.7	40.6	1.0	53.3	28.1	5.0
1.5SMCJ36	GFN	BFN	36.0	40.0	48.9	1.0	64.3	23.3	5.0
1.5SMCJ36A	GFP	BFP	36.0	40.0	44.2	1.0	58.1	25.8	5.0
1.5SMCJ40	GFQ	BFQ	40.0	44.4	54.3	1.0	71.4	21.0	5.0
1.5SMCJ40A	GFR	BFR	40.0	44.4	49.1	1.0	64.5	23.3	5.0
1.5SMCJ43	GFS	BFS	43.0	47.8	58.4	1.0	76.7	19.6	5.0
1.5SMCJ43A	GFT	BFT	43.0	47.8	52.8	1.0	69.4	21.6	5.0
1.5SMCJ45	GFU	BFU	45.0	50.0	61.1	1.0	80.3	18.7	5.0
1.5SMCJ45A	GFV	BFV	45	50.0	55.3	1.0	72.7	20.6	5.0
1.5SMCJ48	GFW	BFW	48	53.3	65.1	1.0	85.5	17.5	5.0
1.5SMCJ48A	GFY	BFY	48	53.3	58.9	1.0	77.4	19.4	5.0
1.5SMCJ51	GFY	BFY	51	56.7	69.3	1.0	91.1	16.5	5.0
1.5SMCJ51A	GFZ	BFZ	51	56.7	62.7	1.0	82.4	18.2	5.0
1.5SMCJ54	GGD	BGD	54	60.0	73.3	1.0	96.3	15.6	5.0
1.5SMCJ54A	GGE	BGE	54	60.0	66.3	1.0	87.1	17.2	5.0
1.5SMCJ58	GGF	BGF	58	64.4	78.7	1.0	103.0	14.6	5.0
1.5SMCJ58A	GGG	BGG	58	64.4	71.2	1.0	93.0	16.0	5.0
1.5SMCJ60	GGH	BGH	60	66.7	81.5	1.0	107.0	14.0	5.0
1.5SMCJ60A	G GK	B GK	60	66.7	73.7	1.0	96.0	15.5	5.0
1.5SMCJ64	GGL	BGL	64	71.1	86.9	1.0	114.0	13.2	5.0
1.5SMCJ64A	GGM	BGM	64	71.1	78.6	1.0	103.0	14.6	5.0
1.5SMCJ70	GGN	BGN	70	77.8	95.1	1.0	125.0	12.0	5.0
1.5SMCJ70A	GGP	BGP	70	77.8	86.0	1.0	113.0	13.3	5.0
1.5SMCJ75	GGQ	BGQ	75	83.3	102.0	1.0	134.0	11.2	5.0
1.5SMCJ75A	GGR	BGR	75	83.3	92.1	1.0	121.0	12.4	5.0
1.5SMCJ78	GGs	BGs	78	86.7	106.0	1.0	139.0	10.8	5.0
1.5SMCJ78A	GGT	BGT	78	86.7	95.8	1.0	126.0	11.9	5.0
1.5SMCJ85	GGU	BGU	85	94.4	115.0	1.0	151.0	9.9	5.0
1.5SMCJ85A	GGV	BGV	85	94.4	104.0	1.0	137.0	10.9	5.0
1.5SMCJ90	GGW	BGW	90	100	122.0	1.0	160.0	9.4	5.0
1.5SMCJ90A	GGX	BGX	90	100	111.0	1.0	146.0	10.3	5.0
1.5SMCJ100	GGY	BGY	100	111	136.0	1.0	179.0	8.4	5.0
1.5SMCJ100A	GGZ	BGZ	100	111	123.0	1.0	162.0	9.3	5.0
1.5SMCJ110	GHD	BHD	110	122	149.0	1.0	196.0	7.7	5.0
1.5SMCJ110A	GHE	BHE	110	122	135.0	1.0	177.0	8.5	5.0
1.5SMCJ120	GHF	BHF	120	133	163.0	1.0	214.0	7.0	5.0
1.5SMCJ120A	GHG	BHG	120	133	147.0	1.0	193.0	7.8	5.0
1.5SMCJ130	GHH	BHH	130	144	176.0	1.0	231.0	6.5	5.0
1.5SMCJ130A	GHK	BHK	130	144	159.0	1.0	209.0	7.2	5.0
1.5SMCJ150	GHL	BHL	150	167	204.0	1.0	268.0	5.6	5.0
1.5SMCJ150A	GHM	BHM	150	167	185.0	1.0	243.0	6.2	5.0
1.5SMCJ160	GHN	BHN	160	178	218.0	1.0	287.0	5.2	5.0
1.5SMCJ160A	GHP	BHP	160	178	197.0	1.0	259.0	5.8	5.0
1.5SMCJ170	GHQ	BHQ	170	189	231.0	1.0	304.0	4.9	5.0
1.5SMCJ170A	GHR	BHR	170	189	209.0	1.0	275.0	5.5	5.0

NOTE : 1. V_r=3.5 V on 1.5SMCJB5.0 thru 90 devices and V_r=5.0 V on 1.5SMCJ100 thru 170 devices at I_r=25A on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle = 4 Pulses per Minute Maximum 2. For Bipolar types with VR of 10 volts and under ,the IR limit is doubled 3. Mounted on 5.0mm² copper pads to each terminal. 4. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



SURFACE MOUNT TRANSIENT VOLTAGE SUPPRESSORS

3.0SMCJ CA Series (5V-170V) 3000WATTS / Case : SMC (DO-214AB) Outline : 49 OPERATING TEMPERATURE -55°C TO +175°C

DEVICE	DEVICE MARKING CODE		WORKING PEAK REVERSE VOLTAGE V _{WM} (VOLTS)	BREAKDOWN VOLTAGE V _(BR) (VOLTS) at I _T		TEST CURRENT I _T (mA)	MAXIMUM Clamping VOLTAGE AT I _{PPM} VC(Volts)	MAX PEAK PULSE SURGE CURRENT I _{PPM} (Amps)	MAXIMUM REVERSE LEAKAGE AT V _{WM} I ₀ (μA)
	UNI	BI		MIN	MAX				
	3.0SMCJ5.0	HDD	IDD	5.0	6.40	7.82	10	9.6	312.5
3.0SMCJ5.0A	HDE	IDE	5.0	6.40	7.07	10	9.2	326.0	800
3.0SMCJ6.0	HDF	IDF	6.0	6.67	8.15	10	11.4	263.2	800
3.0SMCJ6.0A	HDG	IDG	6.0	6.67	7.37	10	10.3	291.3	800
3.0SMCJ6.5	HDH	IDH	6.5	7.22	8.82	10	12.3	243.9	500
3.0SMCJ6.5A	HDK	IDK	6.5	7.22	7.98	10	11.2	267.9	500
3.0SMCJ7.0	HDL	IDL	7.0	7.78	9.51	10	13.3	225.6	200
3.0SMCJ7.0A	HDM	IDM	7.0	7.78	8.60	10	12.0	250.0	200
3.0SMCJ7.5	HDN	IDN	7.5	8.33	10.2	1.0	14.3	209.8	100
3.0SMCJ7.5A	HDP	IDP	7.5	8.33	9.21	1.0	12.9	232.6	100
3.0SMCJ8.0	HDQ	IDQ	8.0	8.89	10.9	1.0	15.0	200.0	50.0
3.0SMCJ8.0A	HDR	IDR	8.0	8.89	9.83	1.0	13.6	220.6	50.0
3.0SMCJ8.5	HDS	IDS	8.5	9.44	11.5	1.0	15.9	188.8	10.0
3.0SMCJ8.5A	HDT	IDT	8.5	9.44	10.4	1.0	14.4	208.4	10.0
3.0SMCJ9.0	HDU	IDU	9.0	10.0	12.2	1.0	16.9	177.4	5.0
3.0SMCJ9.0A	HDV	IDV	9.0	10.0	11.1	1.0	15.4	194.8	5.0
3.0SMCJ10	HDW	IDW	10.0	11.1	13.6	1.0	18.8	159.6	5.0
3.0SMCJ10A	HDX	IDX	10.0	11.1	12.3	1.0	17.0	176.4	5.0
3.0SMCJ11	HDY	IDY	11.0	12.2	14.9	1.0	20.1	149.2	5.0
3.0SMCJ11A	HDZ	IDZ	11.0	12.2	13.5	1.0	18.2	184.8	5.0
3.0SMCJ12	HED	IED	12.0	13.3	16.3	1.0	22.0	136.4	5.0
3.0SMCJ12A	HEE	IEE	12.0	13.3	14.7	1.0	19.9	150.6	5.0
3.0SMCJ13	HEF	IEF	13.0	14.4	17.6	1.0	23.8	126.0	5.0
3.0SMCJ13A	HEG	IEG	13.0	14.4	15.9	1.0	21.5	139.4	5.0
3.0SMCJ14	HEH	IEH	14.0	15.6	19.1	1.0	25.8	116.2	5.0
3.0SMCJ14A	HEK	IEK	14.0	15.6	17.2	1.0	23.2	129.4	5.0
3.0SMCJ15	HEL	IEL	15.0	16.7	20.4	1.0	26.9	111.6	5.0
3.0SMCJ15A	HEM	IEM	15.0	16.7	18.5	1.0	24.4	123.0	5.0
3.0SMCJ16	HEN	IEN	16.0	17.8	21.8	1.0	28.8	104.2	5.0
3.0SMCJ16A	HEP	IEP	16.0	17.8	19.7	1.0	26.0	115.4	5.0
3.0SMCJ17	HEQ	IEQ	17.0	18.9	23.1	1.0	30.5	98.4	5.0
3.0SMCJ17A	HER	IER	17.0	18.9	20.9	1.0	27.6	106.6	5.0
3.0SMCJ18	HES	IES	18.0	20.0	24.4	1.0	32.2	93.2	5.0
3.0SMCJ18A	HET	IET	18.0	20.0	22.1	1.0	29.2	102.8	5.0
3.0SMCJ20	HEU	IEU	20.0	22.2	27.1	1.0	35.8	83.8	5.0
3.0SMCJ20A	HEV	IEV	20.0	22.2	24.5	1.0	32.4	92.6	5.0
3.0SMCJ22	HEW	IEW	22.0	24.4	29.8	1.0	39.4	76.2	5.0
3.0SMCJ22A	HEX	IEX	22.0	24.4	26.9	1.0	35.5	84.4	5.0
3.0SMCJ24	HEY	IEY	24.0	26.7	32.6	1.0	43.0	69.8	5.0
3.0SMCJ24A	HEZ	IEZ	24.0	26.7	29.5	1.0	38.9	77.2	5.0
3.0SMCJ26	HFD	IFD	26.0	28.9	35.3	1.0	46.6	64.4	5.0
3.0SMCJ26A	HFE	IFE	26.0	28.9	31.9	1.0	42.1	71.2	5.0
3.0SMCJ28	HFF	IFF	28.0	31.1	38.0	1.0	50.0	60.0	5.0
3.0SMCJ28A	HFG	IFG	28.0	31.1	34.4	1.0	45.4	66.0	5.0
3.0SMCJ30	HFH	IFH	30.0	33.3	40.7	1.0	53.5	56.0	5.0
3.0SMCJ30A	HFK	IFK	30.0	33.3	36.8	1.0	48.4	62.0	5.0
3.0SMCJ33	HFL	IFL	33.0	36.7	44.9	1.0	59.0	50.4	5.0
3.0SMCJ33A	HFM	IFM	33.0	36.7	40.6	1.0	53.3	56.2	5.0
3.0SMCJ36	HFN	IFN	36.0	40.0	48.9	1.0	64.3	46.6	5.0
3.0SMCJ36A	HFP	IFP	36.0	40.0	44.2	1.0	58.1	51.6	5.0
3.0SMCJ40	HFQ	IFQ	40.0	44.4	54.3	1.0	71.4	42.0	5.0
3.0SMCJ40A	HFR	IFR	40.0	44.4	49.1	1.0	64.5	46.4	5.0
3.0SMCJ43	HFS	IFS	43.0	47.8	58.4	1.0	76.7	39.2	5.0
3.0SMCJ43A	HFT	IFT	43.0	47.8	52.8	1.0	69.4	43.2	5.0
3.0SMCJ45	HFU	IFU	45.0	50.0	61.1	1.0	80.3	37.4	5.0
3.0SMCJ45A	HFV	IFV	45	50.0	55.3	1.0	72.7	41.2	5.0
3.0SMCJ48	HFW	IFW	48	53.3	65.1	1.0	85.5	35.0	5.0
3.0SMCJ48A	HFX	IFX	48	53.3	58.9	1.0	77.4	38.8	5.0
3.0SMCJ51	HFY	IFY	51	56.7	69.3	1.0	91.1	37.0	5.0
3.0SMCJ51A	HFZ	IFZ	51	56.7	62.7	1.0	82.4	36.4	5.0
3.0SMCJ54	HGD	IGD	54	60.0	73.3	1.0	96.3	31.2	5.0
3.0SMCJ54A	HGE	IGE	54	60.0	66.3	1.0	87.1	34.4	5.0
3.0SMCJ58	HGF	IGF	58	64.4	78.7	1.0	103.0	39.2	5.0
3.0SMCJ58A	HGG	IGG	58	64.4	71.2	1.0	93.0	32.0	5.0
3.0SMCJ60	HGH	IGH	60	66.7	81.5	1.0	107.0	28.0	5.0
3.0SMCJ60A	HGK	IGK	60	66.7	73.7	1.0	96.0	31.0	5.0
3.0SMCJ64	HGL	IGL	64	71.1	86.9	1.0	114.0	26.4	5.0
3.0SMCJ64A	HGM	IGM	64	71.1	78.6	1.0	103.0	29.2	5.0
3.0SMCJ70	HGN	IGN	70	77.8	95.1	1.0	125.0	24.0	5.0
3.0SMCJ70A	HGP	IGP	70	77.8	86.0	1.0	113.0	26.6	5.0
3.0SMCJ75	HGO	IGO	75	83.3	102.0	1.0	134.0	22.4	5.0
3.0SMCJ75A	HGR	IGR	75	83.3	92.1	1.0	121.0	24.8	5.0
3.0SMCJ78	HGS	IGS	78	86.7	106.0	1.0	139.0	21.6	5.0
3.0SMCJ78A	HGT	IGT	78	86.7	95.8	1.0	126.0	22.8	5.0
3.0SMCJ85	HGU	IGU	85	94.4	115.0	1.0	151.0	19.8	5.0
3.0SMCJ85A	HGV	IGV	85	94.4	104.0	1.0	137.0	20.8	5.0
3.0SMCJ90	HGW	IGW	90	100	122.0	1.0	160.0	18.8	5.0
3.0SMCJ90A	HGX	IGX	90	100	111.0	1.0	146.0	20.6	5.0
3.0SMCJ100	HGY	IGY	100	111	136.0	1.0	179.0	16.6	5.0
3.0SMCJ100A	HGZ	IGZ	100	111	123.0	1.0	162.0	18.6	5.0
3.0SMCJ110	HHD	IHD	110	122	149.0	1.0	196.0	15.4	5.0
3.0SMCJ110A	HHH	IHH	110	122	135.0	1.0	177.0	16.8	5.0
3.0SMCJ120	HHF	IHF	120	133	163.0	1.0	214.0	14.0	5.0
3.0SMCJ120A	HHG	IHG	120	133	147.0	1.0	193.0	15.6	5.0
3.0SMCJ130	HHH	IHH	130	144	176.0	1.0	231.0	13.0	5.0
3.0SMCJ130A	HHK	IHK	130	144	159.0	1.0	209.0	14.4	5.0
3.0SMCJ150	HHL	IHL	150	167	204.0	1.0	268.0	11.2	5.0
3.0SMCJ150A	HHM	IHM	150	167	185.0	1.0	243.0	12.4	5.0
3.0SMCJ160	HHN	IHN	160	178	218.0	1.0	287.0	10.4	5.0
3.0SMCJ160A	HHP	IHP	160	178	197.0	1.0	259.0	11.6	5.0
3.0SMCJ170	HHQ	IHQ	170	189	231.0	1.0	304.0	9.8	5.0
3.0SMCJ170A	HHR	IHR	170	189	209.0	1.0	275.0	11.0	5.0

NOTE : 1. V_r=3.5 V on 1.5SMCJB5.0 thru 90 devices and V_r=5.0 V on 1.5SMCJ100 thru 170 devices at I_r=25A on 1/2 Square or Equivalent Sine Wave. PW=8.3ms, Duty Cycle = 4 Pulses per Minute Maximum 2. For Bipolar types with VR of 10 volts and under ,the IR limit is doubled 3. Mounted on 5.0mm² copper pads to each terminal. 4. For Bidirectional use C suffix for 10% tolerance, CA suffix for 5% tolerance



SMALL SIGNAL SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Non-repetitive Peak forward Surge Current	Maximum DC Instantaneous Reverse Current @V _R		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _a		I _{FSM}	I _R @T _a =25°C		V _F	I _F
	V	mA	°C	mA	mA	V	V	mA

30~50mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

1N60	20	30	25	150	0.005	15	1.0	30
1N60P	30	50	25	400	0.010	15	1.0	200

T_j and T_{stg} of -65°C to +125°C

I_{FSM} for 25°C and t=1S

30mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

MA700	15	30	25	150	0.1	15	1.0	30
MA700A	30	30	25	150	0.15	30	1.0	30

T_j of +125°C

T_{stg} of -55°C to +125°C

I_{FSM} for 25°C

30mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

1SS106	10	30	25	--	0.07	6	1.0	--
--------	----	----	----	----	------	---	-----	----

T_j of +125°C

T_{stg} of -55°C to +125°C

I_F >4.5 mA at 1V

150mAMP / SCHOTTKY DIODES / DO-34(GLASS) / Outline:50

1N4148M	100	150	25	500	0.005	75	1.0	10
---------	-----	-----	----	-----	-------	----	-----	----

T_j of +200°C

T_{stg} of -65°C to +200°C

I_{FSM} for 25°C and t<1 s

150mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

1N4148	100	150	25	500	0.005	75	1.0	10
--------	-----	-----	----	-----	-------	----	-----	----

T_j of +200°C

T_{stg} of -65°C to +200°C

I_{FSM} for 25°C and t<1 s

200mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

BAT85	30	200	25	600	0.002	25	0.8	100
-------	----	-----	----	-----	-------	----	-----	-----

T_j of +125°C

T_{stg} of -65°C to +150°C

I_{FSM} for 25°C and t<10 ms

350mAMP / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

BAT47	20	350	25	7500	0.01	20	1.0	300
BAT48	40	350	25	7500	0.025	40	0.9	300

T_j of +125°C

T_{stg} of -65°C to +150°C

I_{FSM} for 25°C and t<10 mS

400mWATT / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

1N5711	70	--	--	2000	0.0002	50	0.41	1
1N6263	60	--	--	2000	0.0002	50	1.0	15

T_j of +125°C

T_{stg} of -55°C to +150°C

I_{FSM} for 25°C and t=10 uS Square Wave



SMALL SIGNAL SWITCHING DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Non-repetitive Peak forward Surge Current	Maximum DC Instantaneous Reverse Current @V _R		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _a		I _{FSM}	I _R @T _a =25°C		V _F	I _F
	V	mA	°C	mA	mA	V	V	mA

400mWATT / SCHOTTKY DIODES / MINI MELF(GLASS) / Outline:52

LL101A	60	--	--	2000	0.0002	50	1.0	15
LL101B	50	--	--	2000	0.0002	40	0.95	15
LL101C	40	--	--	2000	0.0002	30	0.90	15

T_j of +125°C
 Tstg of -55 °C to +150°C
 I_{FSM} for 25°C

400mWATT / SCHOTTKY DIODES / MINI MELF(GLASS) / Outline:52

LL103A	40	--	--	15000	0.005	30	0.6	200
LL103B	30	--	--	15000	0.005	20	0.6	200
LL103C	20	--	--	15000	0.005	10	0.6	200

T_j of +125°C
 Tstg of -55 °C to +150°C
 I_{FSM} for 25°C

100mAMP / SWITCHING DIODES / SOD-323 / Outline:52

BAT42WS	30	100	25	4000	0.0005	25	1.0	200	5
BAT43WS	30	100	25	4000	0.0005	25	1.0	200	5

T_j and Tstg of -55°C to +125°C
 I_{FSM} for 25°C and 10ms single half sine-wave

150mAMP / SWITCHING DIODES / SOD-323 / Outline:52

1N4148WS	100	150	25	350			1.0	10	4
----------	-----	-----	----	-----	--	--	-----	----	---

T_j and Tstg of -55°C to +150°C
 I_{FSM} for 25°C

150mAMP / SWITCHING DIODES / SOD-123 / Outline:52

1N4148W	100	150	25	500			1.0	10	4
---------	-----	-----	----	-----	--	--	-----	----	---

T_j and Tstg of -55°C to +150°C
 I_{FSM} for 25°C

215mAMP / SWITCHING DIODES / SOT-23 / Outline:52

BAV99	70	215	25	500	0.0025	75	1.25	150	6
-------	----	-----	----	-----	--------	----	------	-----	---

T_j and Tstg of -55°C to +150°C
 I_{FSM} for 25°C

200mAMP / SWITCHING DIODES / SOT-23 / Outline:52

BAV70	70	200	25	500	0.0025	75	1.25	150	6
-------	----	-----	----	-----	--------	----	------	-----	---

T_j and Tstg of -55°C to +150°C
 I_{FSM} for 25°C

200mAMP / SWITCHING DIODES / SOT-23 / Outline:52

BAS16	75	20	25	500	0.0010	75	1.25	150	6
-------	----	----	----	-----	--------	----	------	-----	---

T_j and Tstg of -55°C to +150°C
 I_{FSM} for 25°C



SMALL SIGNAL SCHOTTKY DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Non-repetitive Peak forward Surge Current	Maximum DC Instantaneous Reverse Current @V _R		Maximum Instantaneous Forward Voltage @25°C	
	V _{RRM}	I _o @T _a		I _{FSM}	I _R @T _a =25°C		V _F	I _F
	V	mA	°C	mA	mA	V	V	mA

400mWATT / SCHOTTKY DIODES / DO-35(GLASS) / Outline:50

Part No.	V _{RRM}	I _o @T _a	I _{FSM}	I _R @T _a =25°C	V _F	I _F
SD103A	40	--	--	15000	0.005	30
SD103B	30	--	--	15000	0.005	20
SD103C	20	--	--	15000	0.005	10

T_j of +125°C

T_{stg} of -55°C to +150°C

I_{FSM} for 25 °C and 60Hz Sine Wave

30~50mAMP / SCHOTTKY DIODES / MINI MELF(GLASS) / Outline:52

Part No.	V _{RRM}	I _o @T _a	I _{FSM}	I _R @T _a =25°C	V _F	I _F
LL60	20	30	25	150	0.005	15
LL60P	30	50	25	400	0.010	15

T_j and T_{stg} of -55°C to +125°C

I_{FSM} for 25°C and t=1S

150mAMP / SWITCHING DIODES / MINI MELF(GLASS) / Outline:52

Part No.	V _{RRM}	I _o @T _a	I _{FSM}	I _R @T _a =25°C	V _F	I _F
LL4148	100	150	25	500	0.005	75

T_j of +175°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C and t=1S

150mAMP / SWITCHING DIODES / QUADRO MELF(GLASS) / Outline:53

Part No.	V _{RRM}	I _o @T _a	I _{FSM}	I _R @T _a =25°C	V _F	I _F
LS4148	100	150	25	500	5	75

T_j of +175°C

T_{stg} of -65°C to +175°C

I_{FSM} for 25°C and t=1S

200mAMP / SCHOTTKY DIODES / MINI MELF(GLASS) / Outline:52

Part No.	V _{RRM}	I _o @T _a	I _{FSM}	I _R @T _a =25°C	V _F	I _F
LL85	30	200	25	600	0.002	25

T_j of -65°C to +125°C

T_{stg} of -65°C to +150°C

I_{FSM} for 25°C



SMALL SIGNAL SWITCHING DIODES

Part No.	Maximum Recurrent Peak Reverse Voltage	Maximum Average Forward Rectified Current		Non-repetitive Peak forward Surge Current	Maximum DC Instantaneous Reverse Current @V _R		Maximum Instantaneous Forward Voltage @25°C		Maximum Reverse Recovery Time
	V _{RRM}	I _o @T _a		I _{FSM} @1s	I _R @T _a =25°C		V _F	I _F	T _{rr}
	V	mA	°C	mA	mA	V	V	mA	ns

200AMP / SWITCHING DIODES / SOT-23 / Outline:55

BAW56	70	200	25	500	0.0025	75	1.25	150	4
-------	----	-----	----	-----	--------	----	------	-----	---

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C

200mAMP / SWITCHING DIODES / SOT-23 / Outline:55

BAT54	30	200	25	-----	0.002	25	1.0	150	5
BAT54A	30	200	25	-----	0.002	25	1.0	150	5
BAT54C	30	200	25	-----	0.002	25	1.0	150	5
BAT54S	30	200	25	-----	0.002	25	1.0	150	5

T_j and T_{stg} of -55°C to +150°C

I_{FSM} for 25°C



SILICON BIDIRECTIONAL DIACS

Part No.	Breakover Voltage	Breakover Current	Power Dissipation on Printed Circuit @T _a =50°C	Repetitive Peak on-state Current	Maximum Leakage Current	Rise Time
	V _{BO}	I _{BO}	P _c	I _{TRM}	I _B @25°C	Tr
	V	mA	mW	A	mA	ms

150mW / SILICON BIDIRECTIONAL / MINI MELF(GLASS) / Outline:52

LLDB3	28~36	100	150 ◆	2 ★	10 ▲	1.5
LLDB4	35~45	100	150 ◆	2 ★	10 ▲	1.5
LLDB6	56~70	100	150 ◆	1.6 ★	10 ▲	1.5
LLDC34	30~38	100	150 ◆	2 ★	10 ▲	1.5

T_j of -40°C to +110°C

T_{stg} of -40°C to +125°C

◆ at L=10mm

★ at t_p=10us and f=100Hz

▲ V_B=0.5V_Bmax.

150mW / SILICON BIDIRECTIONAL / DO-35(GLASS) / Outline:50

DB3	28~36	0.1	150 ◆	2 ★	0.01 ▲	1500
DB4	35~45	0.1	150 ◆	2 ★	0.01 ▲	1500
DB6	56~70	0.1	150 ◆	1.6 ★	0.01 ▲	1500
DC34	30~38	0.1	150 ◆	2 ★	0.01 ▲	1500

T_j of -40°C to +125°C

T_{stg} of -40°C to +125°C

◆ at L=10mm

★ at t_p=10us and f=100Hz

▲ V_B=0.5V_Bmax.



1N746...1N759 SILICON PLANAR ZENER DIODE (400mW)

Silicon Planar Zener Diode

Standard Zener voltage tolerance is $\pm 10\%$. Add suffix "A" for $\pm 5\%$ tolerance. Other tolerances, non standard and higher Zener voltages upon request.

Glass case JEDEC DO-35 Outline: 50

Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at $T_{amb} = 25^{\circ}\text{C}$	P_{tot}	400 ¹⁾	mW
Junction Temperature	T_j	200	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^{\circ}\text{C}$

¹⁾ Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature

Characteristics at $T_{amb} = 25^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 200\text{mA}$	V_F	-	-	1.2	V

¹⁾ Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature

Type	Nominal Zener Voltage ³⁾ at I_{ZT} V_Z V	Test current I_{ZT} mA	Maximum ¹⁾ Zener impedance ¹⁾ at I_{ZT} Z_{ZT} Ω	Typical temperature coefficient %/K	Maximum reverse leakage current		Maximum regulator current ²⁾ I_{ZM} mA
					at $V_R=1\text{V}$ $T_{amb}=25^{\circ}\text{C}$ I_R μA	$T_{amb}=150^{\circ}\text{C}$ I_R μA	
1N746	3.3	20	28	-0.062	10	30	110
1N747	3.6	20	24	-0.055	10	30	100
1N748	3.9	20	23	-0.049	10	30	95
1N749	4.3	20	22	-0.036	2	30	85
1N750	4.7	20	19	-0.018	2	30	75
1N751	5.1	20	17	-0.008	1	20	70
1N752	5.6	20	11	+0.006	1	20	65
1N753	6.2	20	7	+0.022	0.1	20	60
1N754	6.8	20	5	+0.035	0.1	20	55
1N755	7.5	20	6	+0.045	0.1	20	50
1N756	8.2	20	8	+0.052	0.1	20	45
1N757	9.1	20	10	+0.056	0.1	20	40
1N758	10.0	20	17	+0.060	0.1	20	35
1N759	12.0	20	30	+0.060	0.1	20	30

¹⁾ The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

²⁾ Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature.

³⁾ Measured under thermal equilibrium and DC test conditions.



1N957...1N978

SILICON PLANAR ZENER DIODE (400mW)

Silicon Planar Zener Diode

Glass case JEDEC DO-35 Outline: 50

Standard Zener voltage tolerance is $\pm 20\%$. Add suffix "A" for $\pm 10\%$ tolerance and suffix "B" for $\pm 5\%$ tolerance. Other tolerances, non standard and higher Zener voltages upon request.

Absolute Maximum Ratings

	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Power Dissipation at $T_{amb} = 50^\circ\text{C}$	P_{Tot}	400 ¹⁾	mW
Junction Temperature	T_j	175	$^\circ\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^\circ\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Characteristics at $T_{amb} = 25^\circ\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 200\text{ mA}$	V_F	-	-	1.2	V

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.

Type	Nominal Zener Voltage ³⁾ at I_{ZT} V_Z V	Test current I_{ZT} mA	Maximum Zener impedance ¹⁾			Typical temperature coefficient α_{vZ} %/K	Maximum reverse leakage current			Maximum regulator current ²⁾ I_{ZM} mA
			at I_{ZT} Z_{ZT} Ω	Z_{ZK} Ω	at I_{ZK} I_{ZK} mA		I_R μA	Test voltage Suffix A V_R V	Suffix B V_R V	
1N957	6.8	18.5	4.5	700	1.0	+0.050	150	4.9	5.2	47
1N958	7.5	16.5	5.5	700	0.5	+0.058	75	5.4	5.7	42
1N959	8.2	15	6.5	700	0.5	+0.062	50	5.9	6.2	38
1N960	9.1	14	7.5	700	0.5	+0.068	25	6.6	6.9	35
1N961	10	12.5	8.5	700	0.25	+0.075	10	7.2	7.6	32
1N962	11	11.5	9.5	700	0.25	+0.076	5	8.0	8.4	28
1N963	12	10.5	11.5	700	0.25	+0.077	5	8.6	9.1	26
1N964	13	9.5	13	700	0.25	+0.079	5	9.4	9.9	24
1N965	15	8.5	16	700	0.25	+0.082	5	10.8	11.4	21
1N966	16	7.8	17	700	0.25	+0.083	5	11.5	12.2	19
1N967	18	7.0	21	750	0.25	+0.085	5	13.0	13.7	17
1N968	20	6.2	25	750	0.25	+0.086	5	14.4	15.2	15
1N969	22	5.6	29	750	0.25	+0.087	5	15.8	16.7	14
1N970	24	5.2	33	750	0.25	+0.88	5	17.3	18.2	13
1N971	27	4.6	41	750	0.25	+0.090	5	19.4	20.6	11
1N972	30	4.2	49	1000	0.25	+0.091	5	21.6	22.8	10
1N973	33	3.8	58	1000	0.25	+0.092	5	23.8	25.1	9.0
1N974	36	3.4	70	1000	0.25	+0.093	5	25.9	27.4	8.5
1N975	39	3.2	80	1000	0.25	+0.094	5	28.1	29.7	7.8
1N976	43	3.0	93	1500	0.25	+0.095	5	31.0	32.7	7.0
1N977	47	2.7	105	1500	0.25	+0.095	5	33.8	35.8	6.4
1N978	51	2.5	125	1500	0.25	+0.096	5	36.7	38.8	5.9

¹⁾ The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 10mm from case.

³⁾ Measured under thermal equilibrium and DC test conditions.



1N5225...1N5262

SILICON PLANAR ZENER DIODE (500mW)

Silicon Planar Zener Diodes

Glass case JEDEC DO-35 Outline: 50

Standard Zener voltage tolerance is $\pm 20\%$. Add suffix "A" for $\pm 10\%$ tolerance and suffix "B" for $\pm 5\%$ tolerance. Other tolerances, non standard and higher Zener voltages upon request.

Type	Nominal Zener Voltage ³⁾ at I_{ZT} V_Z V	Test current I_{ZT} mA	Maximum Zener Impedance ¹⁾		Typical temperature coefficient α_{VZ} %/K	Maximum reverse leakage current			Maximum regulator current ²⁾ I_{ZM} mA
			at I_{ZT} Z_{ZT} Ω	at $I_{ZT}=0.25$ mA Z_{ZK} Ω		I_R μ A	Test voltage Suffix A V_R V	Suffix B V_R V	
1N5225	3.0	20	29	1600	-0.075	50	0.95	1.0	152
1N5226	3.3	20	28	1600	-0.070	25	0.95	1.0	138
1N5227	3.6	20	24	1700	-0.065	15	0.95	1.0	126
1N5228	3.9	20	23	1900	-0.060	10	0.95	1.0	115
1N5229	4.3	20	22	2000	-0.055	5	0.95	1.0	106
1N5230	4.7	20	19	1900	± 0.030	5	1.9	2.0	97
1N5231	5.1	20	17	1600	± 0.030	5	1.9	2.0	89
1N5232	5.6	20	11	1600	+0.038	5	2.9	3.0	81
1N5233	6.0	20	7	1600	+0.038	5	3.3	3.5	76
1N5234	6.2	20	7	1000	+0.045	5	3.8	4.0	73
1N5235	6.8	20	5	750	+0.050	3	4.8	5.0	67
1N5236	7.5	20	6	500	+0.058	3	5.7	6.0	61
1N5237	8.2	20	8	500	+0.062	3	6.2	6.5	55
1N5238	8.7	20	8	600	+0.065	3	6.2	6.5	52
1N5239	9.1	20	10	600	+0.068	3	6.7	7.0	50
1N5240	10	20	17	600	+0.075	3	7.6	8.0	45
1N5241	11	20	22	600	+0.076	2	8.0	8.4	41
1N5242	12	20	30	600	+0.077	1	8.7	9.1	38
1N5243	13	9.5	13	600	+0.079	0.5	9.4	9.9	35
1N5244	14	9.0	15	600	+0.082	0.1	9.5	10	32
1N5245	15	8.5	16	600	+0.082	0.1	10.5	11	30
1N5246	16	7.8	17	600	+0.083	0.1	11.4	12	28
1N5247	17	7.4	19	600	+0.084	0.1	12.4	13	27
1N5248	18	7.0	21	600	+0.085	0.1	13.3	14	25
1N5249	19	6.6	23	600	+0.086	0.1	13.3	14	24
1N5250	20	6.2	25	600	+0.086	0.1	14.3	15	23
1N5251	22	5.6	29	600	+0.087	0.1	16.2	17	21
1N5252	24	5.2	33	600	+0.087	0.1	17.1	18	19.1
1N5253	25	5.0	35	600	+0.089	0.1	18.1	19	18.2
1N5254	27	4.6	41	600	+0.090	0.1	20	21	16.8
1N5255	28	4.5	44	600	+0.091	0.1	20	21	16.2
1N5256	30	4.2	49	600	+0.091	0.1	22	23	15.1
1N5257	33	3.8	58	700	+0.092	0.1	24	25	13.8
1N5258	36	3.4	70	700	+0.093	0.1	26	27	12.6
1N5259	39	3.2	80	800	+0.094	0.1	29	30	11.6
1N5260	43	3.0	93	900	+0.095	0.1	31	33	10.6
1N5261	47	2.7	105	1000	+0.095	0.1	34	36	9.7
1N5262	51	2.5	125	1100	+0.096	0.1	37	39	8.9

¹⁾ The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

²⁾ Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

³⁾ Measured under thermal equilibrium and DC test conditions.



BZX55... SILICON PLANAR ZENER DIODES (500mW)

Silicon Planar Zener Diodes

Glass case JEDEC DO-35 Outline: 50

The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances and higher Zener voltages on request.

Storage Temperature -55°C to +175°C

Type	Zener Voltage range ¹⁾ at I _Z = 5mA	Dynamic resistance		Temp. coefficient of Zener Voltage at I _Z = 5mA		Reverse leakage current			Admissible Zener current ²⁾
		at I _Z = 5mA f = 1 kHz	at I _Z = 1mA f = 1 kHz	at I _Z = 5mA α _{VZ} %/K	min	max	I _R nA	I _R μA	
	V _Z V	r _Z Ω	r _Z Ω						I _Z mA
BZX55-C0V8 ³⁾	0.73 . . . 0.83	<8	<600	-0.25	-	-	-	-	-
BZX55-C2V7	2.5 . . . 2.9	<85	<600	-0.08	-0.06	<10000	<50	1	135
BZX55-C3V0	2.8 . . . 3.2	<85	<600	-0.08	-0.06	<4000	<40	1	125
BZX55-C3V3	3.1 . . . 3.5	<85	<600	-0.08	-0.05	<2000	<40	1	115
BZX55-C3V6	3.4 . . . 3.9	<85	<600	-0.08	-0.04	<2000	<40	1	105
BZX55-C3V9	3.7 . . . 4.1	<85	<600	-0.07	-0.03	<2000	<40	1	95
BZX55-C4V3	4.0 . . . 4.6	<75	<600	-0.04	-0.01	<1000	<20	1	90
BZX55-C4V7	4.4 . . . 5.0	<60	<600	-0.03	+0.01	<500	<10	1	85
BZX55-C5V1	4.8 . . . 5.4	<35	<550	-0.02	+0.05	<100	<2	1	80
BZX55-C5V6	5.2 . . . 6.0	<25	<450	-0.01	+0.06	<100	<2	1	70
BZX55-C6V2	5.8 . . . 6.6	<10	<200	0	+0.07	<100	<2	2	64
BZX55-C6V8	6.4 . . . 7.2	<8	<150	+0.01	+0.08	<100	<2	3	58
BZX55-C7V5	7.0 . . . 7.9	<7	<50	+0.01	+0.09	<100	<2	5	53
BZX55-C8V2	7.7 . . . 8.7	<7	<50	+0.01	+0.09	<100	<2	6	47
BZX55-C9V1	8.5 . . . 9.6	<10	<50	+0.02	+0.10	<100	<2	7	43
BZX55-C10	9.4 . . . 10.6	<15	<70	+0.03	+0.11	<100	<2	7.5	40
BZX55-C11	10.4 . . . 11.6	<20	<70	+0.03	+0.11	<100	<2	8.5	36
BZX55-C12	11.4 . . . 12.7	<20	<90	+0.03	+0.11	<100	<2	9	32
BZX55-C13	12.4 . . . 14.1	<26	<110	+0.03	+0.11	<100	<2	10	29
BZX55-C15	13.8 . . . 15.6	<30	<110	+0.03	+0.11	<100	<2	11	27
BZX55-C16	15.3 . . . 17.1	<40	<170	+0.03	+0.11	<100	<2	12	24
BZX55-C18	16.8 . . . 19.1	<50	<170	+0.03	+0.11	<100	<2	14	21
BZX55-C20	18.8 . . . 21.2	<55	<220	+0.03	+0.11	<100	<2	15	20
BZX55-C22	20.8 . . . 23.3	<55	<220	+0.03	+0.11	<100	<2	17	18
BZX55-C24	22.8 . . . 25.6	<80	<220	+0.04	+0.12	<100	<2	18	16
BZX55-C27	25.1 . . . 28.9	<80	<220	+0.04	+0.12	<100	<2	20	14
BZX55-C30	28 . . . 32	<80	<220	+0.04	+0.12	<100	<2	22	13
BZX55-C33	31 . . . 35	<80	<220	+0.04	+0.12	<100	<2	24	12
BZX55-C36	34 . . . 38	<80	<220	+0.04	+0.12	<100	<2	27	11
BZX55-C39	37 . . . 41 ⁴⁾	<90 ⁴⁾	<500 ⁵⁾	+0.04	+0.12	<100	<5	28	10
BZX55-C43	40 . . . 46 ⁴⁾	<90 ⁴⁾	<600 ⁵⁾	+0.04	+0.12	<100	<5	32	9.2
BZX55-C47	44 . . . 50 ⁴⁾	<110 ⁴⁾	<700 ⁵⁾	+0.04	+0.12	<100	<5	35	8.5
BZX55-C51	48 . . . 54 ⁴⁾	<125 ⁴⁾	<700 ⁵⁾	+0.04	+0.12	<100	<10	38	7.8

¹⁾ Tested with pulses t_p = 20 ms.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

³⁾ The BZX55-C0V8 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode lead to the negative pole.

⁴⁾ at I_Z = 2.5 mA

⁵⁾ at I_Z = 0.5 mA



BZX97...

SILICON PLANAR ZENER DIODES (500mW)

Silicon Planar Zener Diodes

The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances on request.

Glass case JEDEC DO-35 Outline: 50

Storage Temperature -55°C to +175°C

Type	Zener Voltage range ¹⁾ at $I_z = 5\text{mA}$ $V_Z\text{V}$	Dynamic resistance		Temp. coefficient of Zener Voltage at $I_z = 5\text{mA}$ $\alpha_{VZ} \text{ %/K}$		Reverse leakage current			Admissible Zener current ⁴⁾ at $T_{\text{amb}} = 50^\circ\text{C}$ $I_Z\text{mA}$
		at $I_z = 5\text{mA}$ $f = 1\text{kHz}$ $r_{Z1} \Omega$	at $I_z = 1\text{mA}$ $f = 1\text{kHz}$ $r_{Z2} \Omega$	min	max	$I_R \text{ nA}$	at $T_{\text{amb}} = 150^\circ\text{C}$ $I_R \mu\text{A}$	at $V_R\text{V}$	
BZX97-C0V8 ⁵⁾	0.73 . . . 0.83	<8	<600	-0.25	-	-	-	-	-
BZX97-C2V7	2.5 . . . 2.9	<85	<600	-0.08	-0.06	<10000	<50	1	135
BZX97-C3V0	2.8 . . . 3.2	<85	<600	-0.08	-0.06	<4000	<40	1	125
BZX97-C3V3	3.1 . . . 3.5	<85	<600	-0.08	-0.05	<2000	<40	1	115
BZX97-C3V6	3.4 . . . 3.9	<85	<600	-0.08	-0.04	<2000	<40	1	105
BZX97-C3V9	3.7 . . . 4.1	<85	<600	-0.07	-0.03	<2000	<40	1	95
BZX97-C4V3	4.0 . . . 4.6	<75	<600	-0.04	-0.01	<1000	<20	1	90
BZX97-C4V7	4.4 . . . 5.0	<60	<600	-0.03	+0.01	<500	<10	1	85
BZX97-C5V1	4.8 . . . 5.4	<35	<550	-0.02	+0.05	<100	<2	1	80
BZX97-C5V6	5.2 . . . 6.0	<25	<450	-0.01	+0.06	<100	<2	1	70
BZX97-C6V2	5.8 . . . 6.6	<10	<200	0	+0.07	<100	<2	2	64
BZX97-C6V8	6.4 . . . 7.2	<8	<150	+0.01	+0.08	<100	<2	3	58
BZX97-C7V5	7.0 . . . 7.9	<7	<50	+0.01	+0.09	<100	<2	5	53
BZX97-C8V2	7.7 . . . 8.7	<7	<50	+0.01	+0.09	<100	<2	6	47
BZX97-C9V1	8.5 . . . 9.6	<10	<50	+0.02	+0.10	<100	<2	7	43
BZX97-C10	9.4 . . . 10.6	<15	<70	+0.03	+0.11	<100	<2	7.5	40
BZX97-C11	10.4 . . . 11.6	<20	<70	+0.03	+0.11	<100	<2	8.5	36
BZX97-C12	11.4 . . . 12.7	<20	<90	+0.03	+0.11	<100	<2	9	32
BZX97-C13	12.4 . . . 14.1	<26	<110	+0.03	+0.11	<100	<2	10	29
BZX97-C15	13.8 . . . 15.6	<30	<110	+0.03	+0.11	<100	<2	11	27
BZX97-C16	15.3 . . . 17.1	<40	<170	+0.03	+0.11	<100	<2	12	24
BZX97-C18	16.8 . . . 19.1	<50	<170	+0.03	+0.11	<100	<2	14	21
BZX97-C20	18.8 . . . 21.2	<55	<220	+0.03	+0.11	<100	<2	15	20
BZX97-C22	20.8 . . . 23.3	<55	<220	+0.03	+0.11	<100	<2	17	18
BZX97-C24	22.8 . . . 25.6	<80	<220	+0.04	+0.12	<100	<2	18	16
BZX97-C27	25.1 . . . 28.9	<80	<220	+0.04	+0.12	<100	<2	20	14
BZX97-C30	28 . . . 32	<80	<220	+0.04	+0.12	<100	<2	22	13
BZX97-C33	31 . . . 35	<80	<220	+0.04	+0.12	<100	<2	24	12
BZX97-C36	34 . . . 38	<90	<250	+0.04	+0.12	<100	<2	26	11
BZX97-C39	37 . . . 41 ²⁾	<100 ²⁾	<600 ³⁾	+0.04	+0.12	<100	<2	28	10
BZX97-C43	40 . . . 46 ²⁾	<100 ²⁾	<700 ³⁾	+0.04	+0.12	<100	<2	32	9.2
BZX97-C47	44 . . . 50 ²⁾	<120 ²⁾	<1000 ³⁾	+0.04	+0.12	<100	<2	34	8.5
BZX97-C51	48 . . . 54 ²⁾	<135 ²⁾	<1000 ³⁾	+0.04	+0.12	<100	<2	36	7.8

¹⁾ Tested with pulses $t_p = 20\text{ms}$.

²⁾ Measured at $I_z = 2.5\text{mA}$.

³⁾ Measured at $I_z = 0.5\text{mA}$.

⁴⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

⁵⁾ The BZX97-C0V8 is a silicon diode with operation in forward direction. Hence, the index of all parameters should be "F" instead of "Z". Connect the cathode lead to the negative pole.



1N4729...1N4764

SILICON PLANAR ZENER DIODE (1W)

Silicon Planar Power Zener Diodes

for use in stabilizing and clipping circuits with high power rating. Standard Zener voltage tolerance is $\pm 10\%$. Add Suffix "A" for $\pm 5\%$ tolerance. Other tolerances available upon request.

Glass case DO-41 Outline: 56

Storage Temperature -65°C to $+200^{\circ}\text{C}$

Type	Nominal Zener Voltage ³⁾ at I_{ZT} V_Z V	Test current I_{ZT} mA	Maximum Zener impedance ¹⁾			Maximum reverse leakage current		Surge current at $T_A=25^{\circ}\text{C}$ I_{RSM} mA	Maximum regulator current ²⁾ I_{ZM} mA
			at I_{ZT} Z_{ZT} Ω	Z_{ZK} Ω	at I_{ZK} I_{ZK} mA	I_R μA	at V_R V		
1N4729	3.6	69	10	400	1.0	100	1	1260	252
1N4730	3.9	64	9	400	1.0	100	1	1190	234
1N4731	4.3	58	9	400	1.0	50	1	1070	217
1N4732	4.7	53	8	500	1.0	10	1	970	193
1N4733	5.1	49	7	550	1.0	10	1	890	178
1N4734	5.6	45	5	600	1.0	10	2	810	162
1N4735	6.2	41	2	700	1.0	10	3	730	146
1N4736	6.8	37	3.5	700	1.0	10	4	660	133
1N4737	7.5	34	4.0	700	0.5	10	5	605	121
1N4738	8.2	31	4.5	700	0.5	10	6	550	110
1N4739	9.1	28	5.0	700	0.5	10	7	500	100
1N4740	10	25	7	700	0.25	10	7.6	454	91
1N4741	11	23	8	700	0.25	5	8.4	414	83
1N4742	12	21	9	700	0.25	5	9.1	380	76
1N4743	13	19	10	700	0.25	5	9.9	344	69
1N4744	15	17	14	700	0.25	5	11.4	304	61
1N4745	16	15.5	16	700	0.25	5	12.2	285	57
1N4746	18	14	20	750	0.25	5	13.7	250	50
1N4747	20	12.5	22	750	0.25	5	15.2	225	45
1N4748	22	11.5	23	750	0.25	5	16.7	205	41
1N4749	24	10.5	25	750	0.25	5	18.2	190	38
1N4750	27	9.5	35	750	0.25	5	20.6	170	34
1N4751	30	8.5	40	1000	0.25	5	22.8	150	30
1N4752	33	7.5	45	1000	0.25	5	25.1	135	27
1N4753	36	7.0	50	1000	0.25	5	27.4	125	25
1N4754	39	6.5	60	1000	0.25	5	29.7	115	23
1N4755	43	6.0	70	1500	0.25	5	32.7	110	22
1N4756	47	5.5	80	1500	0.25	5	35.8	95	19
1N4757	51	5.0	95	1500	0.25	5	38.8	90	18
1N4758	56	4.5	110	2000	0.25	5	42.6	80	16
1N4759	62	4.0	125	2000	0.25	5	47.1	70	14
1N4760	68	3.7	150	2000	0.25	5	51.7	65	13
1N4761	75	3.3	175	2000	0.25	5	56.0	60	12
1N4762	82	3.0	200	3000	0.25	5	62.2	55	11
1N4763	91	2.8	250	3000	0.25	5	69.2	50	10
1N4764	100	2.5	350	3000	0.25	5	76.0	45	9

¹⁾ The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

²⁾ Valid provided that leads at a distance of 10mm from case are kept at ambient temperature.

³⁾ Measured under thermal equilibrium and DC test conditions.



BZX85...

SILICON PLANAR ZENER DIODES (1.3W)

Silicon Planar Power Zener Diodes

for use in stabilizing and clipping circuits with high power rating. The Zener voltages are graded according to the international E 24 standard. Other voltage tolerances and higher Zener voltages upon request.

Glass case DO-41 Outline: 56

Storage Temperature -55°C to $+200^{\circ}\text{C}$

Type	Zener Voltage range ¹⁾ at $I_z - I_{zT}$ V _Z V	Dynamic resistance				Temp coefficient of Zener voltage at $I_z - I_{zT}$ $\alpha_{VZ}\%/K$		Reverse leakage current		Admissible Zener current	
		$r_{z\Omega}$	at f - 1kHz I_{zT} mA	$r_{z\Omega}$	at f - 1kHz I_z mA	min.	max	$I_{R\mu A}$	at V _Z V	²⁾ I_z mA	at $t_p=10\text{ms}$ I_{ZSM} mA
BZX85-C3V6	3.4 . . . 3.8	<15	60	<500	1	-0.08	-0.05	<20	1	290	2660
BZX85-C3V9	3.7 . . . 4.1	<15	60	<500	1	-0.07	-0.02	<10	1	280	2540
BZX85-C4V3	4.0 . . . 4.6	<13	50	<500	1	-0.05	+0.01	<3	1	250	2440
BZX85-C4V7	4.4 . . . 5.0	<13	45	<600	1	-0.03	+0.04	<3	1	215	2320
BZX85-C5V1	4.8 . . . 5.4	<10	45	<500	1	0.01	+0.04	<1	1.5	200	2200
BZX85-C5V6	5.2 . . . 6.0	<7	45	<400	1	0	+0.045	<1	2	190	2080
BZX85-C6V2	5.8 . . . 6.6	<4	35	<300	1	+0.01	+0.055	<1	3	170	1960
BZX85-C6V8	6.4 . . . 7.2	<3.5	35	<300	1	+0.015	+0.06	<1	4	155	1800
BZX85-C7V5	7.0 . . . 7.9	<3	35	<200	0.5	+0.02	+0.065	<1	4.5	140	1620
BZX85-C8V2	7.7 . . . 8.7	<5	25	<200	0.5	+0.03	+0.07	<1	6.2	130	1520
BZX85-C9V1	8.5 . . . 9.6	<5	25	<200	0.5	+0.035	+0.075	<1	6.8	120	1340
BZX85-C10	9.4 . . . 10.6	<7	25	<200	0.5	+0.04	+0.08	<0.5	7.5	105	1200
BZX85-C11	10.4 . . . 11.6	<8	20	<300	0.5	+0.045	+0.08	<0.5	8.2	97	1100
BZX85-C12	11.4 . . . 12.7	<9	20	<350	0.5	+0.045	+0.085	<0.5	9.1	88	1000
BZX85-C13	12.4 . . . 14.1	<10	20	<400	0.5	+0.05	+0.085	<0.5	10	79	900
BZX85-C15	13.8 . . . 15.6	<10	15	<500	0.5	+0.055	+0.09	<0.5	11	71	760
BZX85-C16	15.3 . . . 17.1	<15	15	<500	0.5	+0.055	+0.09	<0.5	12	66	700
BZX85-C18	16.8 . . . 19.1	<20	15	<500	0.5	+0.06	+0.09	<0.5	13	62	600
BZX85-C20	18.8 . . . 21.2	<24	10	<600	0.5	+0.06	+0.09	<0.5	15	56	540
BZX85-C22	20.8 . . . 23.3	<25	10	<600	0.5	+0.06	+0.095	<0.5	16	52	500
BZX85-C24	22.8 . . . 25.6	<25	10	<600	0.5	+0.06	+0.095	<0.5	18	47	450
BZX85-C27	25.1 . . . 28.9	<30	8	<750	0.25	+0.06	+0.095	<0.5	20	41	400
BZX85-C30	28 . . . 32	<30	8	<1000	0.25	+0.06	+0.095	<0.5	22	36	380
BZX85-C33	31 . . . 35	<35	8	<1000	0.25	+0.06	+0.095	<0.5	24	33	350
BZX85-C36	34 . . . 38	<40	8	<1000	0.25	+0.06	+0.095	<0.5	27	30	320
BZX85-C39	37 . . . 41	<50	6	<1000	0.25	+0.06	+0.095	<0.5	30	28	296
BZX85-C43	40 . . . 46	<50	6	<1000	0.25	+0.06	+0.095	<0.5	33	26	270
BZX85-C47	44 . . . 50	<90	4	<1500	0.25	+0.06	+0.095	<0.5	36	23	246
BZX85-C51	48 . . . 54	<115	4	<1500	0.25	+0.06	+0.095	<0.5	39	21	226
BZX85-C56	52 . . . 60	<120	4	<2000	0.25	+0.06	+0.095	<0.5	43	19	208
BZX85-C62	58 . . . 66	<125	4	<2000	0.25	+0.06	+0.095	<0.5	47	16	186

¹⁾ Tested with pulses $t_p = 20$ ms.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



SILICON PLANAR ZENER DIODES (1.5W)

BZX1.5C...

Glass Case DO-41 Outline : 56

Characteristics at $T_j = 25^\circ\text{C}$

Type	Nomina l Zener V	Zener Voltage Range		Dynamic Resistance			Reverse Leakage		Maximum DC Zener Current mA
		V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZT} (mA)	I_R (uA)	V_R (V)	
BZX1.5C...3V3	3.3	3.1...3.5	113.6	10.0	500	1.0	100	1.0	454
BZX1.5C...3V6	3.6	3.4...3.8	104.2	9.0	500	1.0	75	1.0	416
BZX1.5C...3V9	3.9	3.7...4.1	96.1	7.5	500	1.0	25	1.0	384
BZX1.5C...4V3	4.3	4.0...4.6	87.2	6.0	500	1.0	5.0	1.0	348
BZX1.5C...4V7	4.7	4.4...5.0	79.8	5.0	500	1.0	5.0	1.5	319
BZX1.5C...5V1	5.1	4.8...5.4	73.5	4.0	350	1.0	5.0	2.0	294
BZX1.5C...5V6	5.6	5.2...6.0	66.9	2.0	250	1.0	5.0	3.0	267
BZX1.5C...6V2	6.2	5.8...6.6	60.5	2.0	200	1.0	5.0	4.0	241
BZX1.5C...6V8	6.8	6.4...7.2	55.1	2.5	200	1.0	5.0	5.2	220
BZX1.5C...7V5	7.5	7.0...7.9	50.0	3.0	400	0.5	5.0	6.8	200
BZX1.5C...8V2	8.2	7.7...8.7	45.7	3.5	400	0.5	5.0	6.5	182
BZX1.5C...9V1	9.1	8.5...9.6	41.2	4.0	500	0.5	5.0	7.0	164
BZX1.5C...10V	10	9.4...10.6	37.5	4.5	500	0.25	5.0	8.0	150
BZX1.5C...11V	11	10.4...11.6	34.1	5.5	550	0.25	1.0	8.4	136
BZX1.5C...12V	12	11.4...12.7	31.2	6.5	550	0.25	1.0	9.1	125
BZX1.5C...13V	13	12.4...14.1	28.8	7.0	550	0.25	1.0	9.9	115
BZX1.5C...15V	15	13.8...15.6	25.0	9.0	550	0.25	1.0	11.4	100
BZX1.5C...16V	16	15.3...17.1	23.4	10	600	0.25	1.0	12.2	93
BZX1.5C...18V	18	16.8...19.1	20.8	12	600	0.25	1.0	13.7	83
BZX1.5C...20V	20	18.8...21.2	18.7	14	650	0.25	1.0	15.2	75
BZX1.5C...22V	22	20.8...23.3	17.0	17.5	650	0.25	1.0	16.7	68
BZX1.5C...24V	24	22.8...25.6	15.6	19	700	0.25	1.0	18.2	62
BZX1.5C...27V	27	25.1...28.9	13.9	23	700	0.25	1.0	20.6	55
BZX1.5C...30V	30	28...32	12.5	26	750	0.25	1.0	22.8	50
BZX1.5C...33V	33	31...35	11.4	33	800	0.25	1.0	25.1	45
BZX1.5C...36V	36	34...38	10.4	38	850	0.25	1.0	27.4	41
BZX1.5C...39V	39	37...41	9.6	45	900	0.25	1.0	29.7	38
BZX1.5C...43V	43	40...46	8.7	53	950	0.25	1.0	32.7	34
BZX1.5C...47V	47	44...50	8.0	67	1000	0.25	1.0	35.8	31
BZX1.5C...51V	51	48...54	7.3	70	1100	0.25	1.0	38.8	29
BZX1.5C...56V	56	52...60	6.7	86	1300	0.25	1.0	42.6	26
BZX1.5C...62V	62	58...66	6.0	100	1500	0.25	1.0	74.1	24
BZX1.5C...68V	68	64...72	5.5	120	1700	0.25	1.0	51.7	22
BZX1.5C...75V	75	70...79	5.0	140	2000	0.25	1.0	56.0	20
BZX1.5C...82V	82	77...87	4.6	160	2500	0.25	1.0	62.2	18
BZX1.5C...91V	91	85...96	4.1	200	3000	0.25	1.0	69.2	16
BZX1.5C...100V	100	94...106	3.7	250	3100	0.25	1.0	76.0	15
BZX1.5C...110V	110	104...116	3.4	300	4000	0.25	1.0	83.6	13
BZX1.5C...120V	120	114...127	2.1	380	4500	0.25	1.0	91.2	12
BZX1.5C...130V	130	124...141	2.9	450	5000	0.25	1.0	98.8	11
BZX1.5C...150V	150	138...156	2.5	600	6000	0.25	1.0	114.0	10
BZX1.5C...160V	160	153...171	2.3	700	6500	0.25	1.0	121.6	9.0
BZX1.5C...180V	180	168...191	2.1	900	7000	0.25	1.0	136.8	8.0
BZX1.5C...200V	200	188...212	1.9	1200	8000	0.25	1.0	152.0	7.0

1) Tested with pulse $t_p = 40$ ms.

2) Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.

SILICON PLANAR ZENER DIODES (2.0W)

BZX2C...

Glass Case DO-41 Outline : 56

Characteristics at $T_j = 25^\circ\text{C}$

TYPE	Nomona I Zener Voltage	Zener Voltage Range		Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current
		V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZK} (mA)	I_R (μA)	V_R (V)	
BZX2C 3.6	3.6	3.4...3.8	139	5	400	1	80	1	504
BZX 2C 3.9	3.9	3.7...4.1	128	5	400	1	30	1	468
BZX 2C 4.3	4.3	4.0...4.6	116	4.5	400	1	20	1	434
BZX 2C 4.7	4.7	4.4...5.0	106	4.5	550	1	5	1	386
BZX 2C 5.1	5.1	4.8...5.4	98	3.5	600	1	5	1	356
BZX 2C 5.6	5.6	5.2...6.0	89.5	2.5	650	1	5	2	324
BZX 2C 6.2	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
BZX 2C 6.8	6.8	6.4...7.2	73.5	2	700	1	5	4	266
BZX 2C 7.5	7.5	7.0...7.9	66.5	2	700	0.5	5	5	242
BZX 2C 8.2	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
BZX 2C 9.1	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
BZX 2C 10	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
BZX 2C 11	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
BZX 2C 12	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
BZX 2C 13	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
BZX 2C 15	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
BZX 2C 16	16	15.3...17.1	31.2	8	700	0.25	0.3	12.2	114
BZX 2C 18	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
BZX 2C 20	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
BZX 2C 22	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
BZX 2C 24	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
BZX 2C 27	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
BZX 2C 30	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
BZX 2C 33	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
BZX 2C 36	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
BZX 2C 39	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
BZX 2C 43	43	40...46	11.6	35	1500	0.25	0.5	32.7	43
BZX 2C 47	47	44...50	10.6	40	1500	0.25	0.5	35.8	39
BZX 2C 51	51	48...54	9.8	48	1500	0.25	0.5	38.8	36
BZX 2C 56	56	52...60	9	55	2000	0.25	0.5	42.6	32
BZX 2C 62	62	58...66	8.1	60	2000	0.25	0.5	47.1	29
BZX 2C 68	68	64...72	7.4	75	2000	0.25	0.5	51.7	27
BZX 2C 75	75	70...79	6.7	90	2000	0.25	0.5	56	24
BZX 2C 82	82	77...87	6.1	100	3000	0.25	0.5	62.2	22
BZX 2C 91	91	85...96	5.5	125	3000	0.25	0.5	69.2	20
BZX 2C 100	100	94...106	5	175	3000	0.25	0.5	76	18
BZX 2C 110	110	104...116	4.5	250	4000	0.25	0.5	83.6	17
BZX 2C 120	120	114...127	4.2	325	4500	0.25	0.5	91.2	15
BZX 2C 130	130	124...141	3.8	400	5000	0.25	0.5	98.8	14
BZX 2C 150	150	138...156	3.3	575	6000	0.25	0.5	114	12
BZX 2C 160	160	153...171	3.1	650	6500	0.25	0.5	121.6	11
BZX 2C 180	180	168...191	2.8	725	7000	0.25	0.5	136.8	10
BZX 2C 200	200	188...212	2.5	900	8000	0.25	0.5	152	9

1) Tested with pulses $t_p = 20$ ms.

2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



SURFACE MOUNT SILICON PLANAR ZENER DIODES (500mW)

ZMM 5225...ZMM 5262

Glass Casae MINI MELF(GLASS) Outline : 52

TYPE	Nominal Zener voltage ³⁾	Test current I_{ZT} mA	Maximum Zener Impedance ¹⁾		Typical temperature coefficient $\pm V_Z \% / K$	Maximum reverse leakage current			Maximum regulator current ²⁾ I_{ZM} mA
	at I_{ZT} V_Z V		at I_{ZT} $V_{ZT\zeta}$	at $I_{ZT}=0.25$ mA $V_{ZK\zeta}$		I_R μ A	Test Voltage Suffix A V_R V	Suffix B V_R V	
ZMM5225	3	20	29	1600	-0.075	50	0.95	1	152
ZMM5226	3.3	20	28	1600	-0.070	25	0.95	1	138
ZMM5227	3.6	20	24	1700	-0.065	15	0.95	1	126
ZMM5228	3.9	20	23	1900	-0.060	10	0.95	1	115
ZMM5229	4.3	20	22	2000	-0.055	5	0.95	1	106
ZMM5230	4.7	20	19	1900	60.030	5	1.9	2	97
ZMM5231	5.1	20	17	1600	60.030	5	1.9	2	89
ZMM5232	5.6	20	11	1600	+0.038	5	2.9	3	81
ZMM5233	6	20	7	1600	+0.038	5	3.3	3.5	76
ZMM5234	6.2	20	7	1000	+0.045	5	3.8	4	73
ZMM5235	6.8	20	5	750	+0.050	3	4.8	5	67
ZMM5236	7.5	20	6	500	+0.058	3	5.7	6	61
ZMM5237	8.2	20	8	500	+0.062	3	6.2	6.5	55
ZMM5238	8.7	20	8	600	+0.065	3	6.2	6.5	52
ZMM5239	9.1	20	10	600	+0.068	3	6.7	7	50
ZMM5240	10	20	17	600	+0.075	3	7.6	8	45
ZMM5241	11	20	22	600	+0.076	2	8.0	8.4	41
ZMM5242	12	20	30	600	+0.077	1	8.7	9.1	38
ZMM5243	13	9.5	13	600	+0.079	0.5	9.4	9.9	35
ZMM5244	14	9	15	600	+0.082	0.1	9.5	10	32
ZMM5245	15	8.5	16	600	+0.082	0.1	10.5	11	30
ZMM5246	16	7.8	17	600	+0.083	0.1	11.4	12	28
ZMM5247	17	7.4	19	600	+0.084	0.1	12.4	13	27
ZMM5248	18	7.0	21	600	+0.085	0.1	13.3	14	25
ZMM5249	19	6.6	23	600	+0.086	0.1	13.3	14	24
ZMM5250	20	6.2	25	600	+0.086	0.1	14.3	15	23
ZMM5251	22	5.6	29	600	+0.087	0.1	16.2	17	21
ZMM5252	24	5.2	33	600	+0.087	0.1	17.1	18	19.1
ZMM5253	25	5	35	600	+0.089	0.1	18.1	19	18.2
ZMM5254	27	4.6	41	600	+0.090	0.1	20	21	16.8
ZMM5255	28	4.4	44	600	+0.091	0.1	20	21	16.2
ZMM5256	30	4.2	49	600	+0.091	0.1	22	23	15.1
ZMM5257	33	3.8	58	700	+0.092	0.1	24	25	13.8
ZMM5258	36	3.4	70	700	+0.093	0.1	26	27	12.6
ZMM5259	39	3.2	80	800	+0.094	0.1	29	30	11.6
ZMM5260	43	3	93	900	+0.095	0.1	31	33	10.6
ZMM5261	47	2.7	105	1000	+0.095	0.1	34	36	9.7
ZMM5262	51	2.5	125	1100	+0.096	0.1	37	39	8.9

1) The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

2) Valid provided that electrodes are kept at ambient temperature.

3) Measured under thermal equilibrium and DC test conditions.



SURFACE MOUNT SILICON PLANAR ZENER DIODES (1W)

ZM 4728...ZM 4764

Glass Casae MELF(GLASS) Outline : 53

TYPE	Nominal Zener voltage ³⁾	Test current I_{ZT} mA	Maximum Zener Impedance ¹⁾			Maximum reverse leakage current		Surge current at $T_A=25^\circ\text{C}$ I_R mA	Maximum regulator current ²⁾ I_{ZM} mA
	at I_{ZT} V_Z V		at I_{ZT} $V_{Z\zeta}$	$V_{Z\zeta}$	at I_{ZK} mA	I_R μA	at V_R V		
ZM4728	3.3	76	10	400	1	150	1	1375	275
ZM4729	3.6	69	10	400	1	100	1	1260	252
ZM4730	3.9	64	9	400	1	100	1	1190	234
ZM4731	4.3	58	9	400	1	50	1	1070	217
ZM4732	4.7	53	8	500	1	10	1	970	193
ZM4733	5.1	49	7	550	1	10	1	890	178
ZM4734	5.6	45	5	600	1	10	2	810	162
ZM4735	6.2	41	2	700	1	10	3	730	146
ZM4736	6.8	37	3.5	700	1	10	4	660	133
ZM4737	7.5	34	4.0	700	0.5	10	5	605	121
ZM4738	8.2	31	4.5	700	0.5	10	6	550	110
ZM4739	9.1	28	5.0	700	0.5	10	7	500	100
ZM4740	10	25	7	700	0.25	10	7.6	454	91
ZM4741	11	23	8	700	0.25	5	8.4	414	83
ZM4742	12	21	9	700	0.25	5	9.1	380	76
ZM4743	13	19	10	700	0.25	5	9.9	344	69
ZM4744	15	17	14	700	0.25	5	11.4	304	61
ZM4745	16	15.5	16	700	0.25	5	12.2	285	57
ZM4746	18	14	20	750	0.25	5	13.7	250	50
ZM4747	20	12.5	22	750	0.25	5	15.2	225	45
ZM4748	22	11.5	23	750	0.25	5	16.7	205	41
ZM4749	24	10.5	25	750	0.25	5	18.2	190	38
ZM4750	27	9.5	35	750	0.25	5	20.6	170	34
ZM4751	30	8.5	40	1000	0.25	5	22.8	150	30
ZM4752	33	7.5	45	1000	0.25	5	25.1	135	27
ZM4753	36	7.0	50	1000	0.25	5	27.4	125	25
ZM4754	39	6.5	60	1000	0.25	5	29.7	115	23
ZM4755	43	6.0	70	1500	0.25	5	32.7	110	22
ZM4756	47	5.5	80	1500	0.25	5	35.8	95	19
ZM4757	51	5.0	95	1500	0.25	5	38.8	90	18
ZM4758	56	4.5	110	2000	0.25	5	42.6	80	16
ZM4759	62	4.0	125	2000	0.25	5	47.1	70	14
ZM4760	68	3.7	150	2000	0.25	5	51.7	65	13
ZM4761	75	3.3	175	2000	0.25	5	56.0	60	12
ZM4762	82	3.0	200	3000	0.25	5	62.2	55	11
ZM4763	91	2.8	250	3000	0.25	5	69.2	50	10
ZM4764	100	2.5	350	3000	0.25	5	76	45	9

- 1) The Zener Impedance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener current (I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} . Zener Impedance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.
- 2) Valid provided that electrodes are kept at ambient temperature.
- 3) Measured under thermal equilibrium and DC test conditions.



SURFACE MOUNT SILICON PLANAR ZENER DIODES (1.3W)

ZM1.3C ...

Glass Casae MELF(GLASS) Outline : 53

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current		Temp coefficient of Zener Voltage TKvz %/K
	Vznom V	I _{ZT} for V _{ZT} mA	V V	r _{ZJT} Ω	r _{ZJK} at I _{ZK} mA	I _R μA	at V _R V		
ZM 1.3C 2V7	2.7	80	2.5...2.9	<20	<400	1	<150	1	-0.08...-0.05
ZM 1.3C 3V0	3.0	80	2.8...3.2	<20	<400	1	<100	1	-0.08...-0.05
ZM 1.3C 3V3	3.3	70	3.1...3.5	<20	<400	1	<40	1	-0.08...-0.05
ZM 1.3C 3V6	3.6	60	3.4...3.8	<15	<500	1	<20	1	-0.08...-0.05
ZM 1.3C 3V9	3.9	60	3.7...4.1	<15	<500	1	<10	1	-0.07...-0.02
ZM 1.3C 4V3	4.3	50	4.0...4.6	<13	<500	1	<3	1	-0.07...+0.01
ZM 1.3C 4V7	4.7	45	4.4...5.0	<13	<600	1	<3	1	-0.03...+0.04
ZM 1.3C 5V1	5.1	45	4.8...5.4	<10	<500	1	<1	1.5	-0.01...+0.04
ZM 1.3C 5V6	5.6	45	5.2...6.0	<7	<400	1	<1	2	0...+0.045
ZM 1.3C 6V2	6.2	35	5.8...6.6	<4	<300	1	<1	3	+0.01...+0.055
ZM 1.3C 6V8	6.8	35	6.4...7.2	<3.5	<300	1	<1	4	+0.015...+0.06
ZM 1.3C 7V5	7.5	35	7.0...7.9	<3	<200	0.5	<1	4.5	+0.02...+0.065
ZM 1.3C 8V2	8.2	25	7.7...8.7	<5	<200	0.5	<1	6.2	0.03...0.07
ZM 1.3C 9V1	9.1	25	8.5...9.6	<5	<200	0.5	<1	6.8	0.035...0.075
ZM 1.3C 10	10	25	9.4...10.6	<7	<200	0.5	<0.5	7	0.04...0.08
ZM 1.3C 11	11	20	10.4...11.6	<8	<300	0.5	<0.5	8.2	0.045...0.08
ZM 1.3C 12	12	20	11.4...12.7	<9	<350	0.5	<0.5	9.1	0.045...0.085
ZM 1.3C 13	13	20	12.4...14.1	<10	<400	0.5	<0.5	10	0.05...0.085
ZM 1.3C 15	15	15	13.8...15.6	<15	<500	0.5	<0.5	11	0.055...0.09
ZM 1.3C 16	16	15	15.3...17.1	<15	<500	0.5	<0.5	12	0.055...0.09
ZM 1.3C 18	18	15	16.8...19.1	<20	<500	0.5	<0.5	13	0.06...0.09
ZM 1.3C 20	20	10	18.8...21.2	<24	<600	0.5	<0.5	15	0.06...0.09
ZM 1.3C 22	22	10	20.8...23.3	<25	<600	0.5	<0.5	16	0.06...0.095
ZM 1.3C 24	24	10	22.8...25.6	<25	<600	0.5	<0.5	18	0.06...0.095
ZM 1.3C 27	27	8	25.1...28.9	<30	<750	0.25	<0.5	20	0.06...0.095
ZM 1.3C 30	30	8	28...32	<30	<1000	0.25	<0.5	22	0.06...0.095
ZM 1.3C 33	33	8	31...35	<35	<1000	0.25	<0.5	24	0.06...0.095
ZM 1.3C 36	36	8	34...38	<40	<1000	0.25	<0.5	27	0.06...0.095
ZM 1.3C 39	39	6	37...41	<50	<1000	0.25	<0.5	30	0.06...0.095
ZM 1.3C 43	43	6	40...46	<50	<1000	0.25	<0.5	33	0.06...0.095
ZM 1.3C 47	47	4	44...50	<90	<1500	0.25	<0.5	36	0.06...0.095
ZM 1.3C 51	51	4	48...54	<115	<1500	0.25	<0.5	39	0.06...0.095
ZM 1.3C 56	56	4	52...60	<120	<2000	0.25	<0.5	43	0.06...0.095
ZM 1.3C 62	62	4	58...66	<125	<2000	0.25	<0.5	47	0.06...0.095
ZM 1.3C 68	68	4	64...72	<130	<2000	0.25	<0.5	51	0.06...0.095
ZM 1.3C 75	75	4	70...79	<135	<2000	0.25	<0.5	56	0.06...0.095
ZM 1.3C 82	82	2.7	77...87	<200	<3000	0.25	<0.5	62	0.07...0.10
ZM 1.3C 91	91	2.7	85...96	<250	<3000	0.25	<0.5	68	0.07...0.10
ZM 1.3C 100	100	2.7	94...106	<350	<3000	0.25	<0.5	75	0.07...0.11
ZM 1.3C 110	110	2.7	104...116	<450	<4000	0.25	<0.5	82	0.07...0.11
ZM 1.3C 120	120	2	114...127	<550	<4500	0.25	<0.5	91	0.07...0.11
ZM 1.3C 130	130	2	124...141	<700	<5000	0.25	<0.5	100	0.07...0.11
ZM 1.3C 150	150	2	138...156	<1000	<6000	0.25	<0.5	110	0.07...0.11
ZM 1.3C 160	160	1.5	153...171	<1100	<6500	0.25	<0.5	120	0.07...0.11
ZM 1.3C 180	180	1.5	168...191	<1200	<7000	0.25	<0.5	130	0.07...0.11
ZM 1.3C 200	200	1.5	188...212	<1500	<8000	0.25	<0.5	150	0.07...0.11

1) Tested with pulses t_p = 20 ms.



SURFACE MOUNT SILICON PLANAR ZENER DIODES (1.5W)

ZM1.5C...

Glass Casae MELF(GLASS) Outline : 53

Characteristics at $T_j = 25^\circ\text{C}$

Type	Nominal Zener Voltage V	Zener Voltage Range		Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current mA
		V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZT} (mA)	I_R (uA)	V_R (V)	
ZM 1.5C 3V3	3.3	3.1...3.5	113.6	10	500	1	100	1	454
ZM 1.5C 3V6	3.6	3.4...3.8	104.2	9	500	1	75	1	416
ZM 1.5C 3V9	3.9	3.7...4.1	96.1	7.5	500	1	25	1	384
ZM 1.5C 4V3	4.3	4.0...4.6	87.2	6	500	1	5	1	348
ZM 1.5C 4V7	4.7	4.4...5.0	79.8	5	500	1	5	1.5	319
ZM 1.5C 5V1	5.1	4.8...5.4	73.5	4	350	1	5	2	294
ZM 1.5C 5V6	5.6	5.2...6.0	66.9	2	250	1	5	3	267
ZM 1.5C 6V2	6.2	5.8...6.6	60.5	2	200	1	5	4	241
ZM 1.5C 6V8	6.8	6.4...7.2	55.1	2.5	200	1	5	5.2	220
ZM 1.5C 7V5	7.5	7.0...7.9	50	3	400	0.5	5	6.8	200
ZM 1.5C 8V2	8.2	7.7...8.7	45.7	3.5	400	0.5	5	6.5	182
ZM 1.5C 9V1	9.1	8.5...9.6	41.2	4	500	0.5	5	7	164
ZM 1.5C 10	10	9.4...10.6	37.5	4.5	500	0.25	5	8	150
ZM 1.5C 11	11	10.4...11.6	34.1	5.5	550	0.25	1	8.4	136
ZM 1.5C 12	12	11.4...12.7	31.2	6.5	550	0.25	1	9.1	125
ZM 1.5C 13	13	12.4...14.1	28.8	7	550	0.25	1	9.9	115
ZM 1.5C 15	15	13.8...15.6	25	9	550	0.25	1	11.4	100
ZM 1.5C 16	16	15.3...17.1	23.4	10	600	0.25	1	12.2	93
ZM 1.5C 18	18	16.8...19.1	20.8	12	600	0.25	1	13.7	83
ZM 1.5C 20	20	18.8...21.2	18.7	14	650	0.25	1	15.2	75
ZM 1.5C 22	22	20.8...23.3	17	17.5	650	0.25	1	16.7	68
ZM 1.5C 24	24	22.8...25.6	15.6	19	700	0.25	1	18.2	62
ZM 1.5C 27	27	25.1...28.9	13.9	23	700	0.25	1	20.6	55
ZM 1.5C 30	30	28...32	12.5	26	750	0.25	1	22.8	50
ZM 1.5C 33	33	31...35	11.4	33	800	0.25	1	25.1	45
ZM 1.5C 36	36	34...38	10.4	38	850	0.25	1	27.4	41
ZM 1.5C 39	39	37...41	9.6	45	900	0.25	1	29.7	38
ZM 1.5C 43	43	40...46	8.7	53	950	0.25	1	32.7	34
ZM 1.5C 47	47	44...50	8	67	1000	0.25	1	35.8	31
ZM 1.5C 51	51	48...54	7.3	70	1100	0.25	1	38.8	29
ZM 1.5C 56	56	52...60	6.7	86	1300	0.25	1	42.6	26
ZM 1.5C 62	62	58...66	6	100	1500	0.25	1	74.1	24
ZM 1.5C 68	68	64...72	5.5	120	1700	0.25	1	51.7	22
ZM 1.5C 75	75	70...79	5	140	2000	0.25	1	56	20
ZM 1.5C 82	82	77...87	4.6	160	2500	0.25	1	62.2	18
ZM 1.5C 91	91	85...96	4.1	200	3000	0.25	1	69.2	16
ZM 1.5C 100	100	94...106	3.7	250	3100	0.25	1	76	15
ZM 1.5C 110	110	104...116	3.4	300	4000	0.25	1	83.6	13
ZM 1.5C 120	120	114...127	2.1	380	4500	0.25	1	91.2	12
ZM 1.5C 130	130	124...141	2.9	450	5000	0.25	1	98.8	11
ZM 1.5C 150	150	138...156	2.5	600	6000	0.25	1	114	10
ZM 1.5C 160	160	153...171	2.3	700	6500	0.25	1	121.6	9
ZM 1.5C 180	180	168...191	2.1	900	7000	0.25	1	136.8	8
ZM 1.5C 200	200	188...212	1.9	1200	8000	0.25	1	152	7

1) Tested with pulse $t_p = 40$ ms.



SURFACE MOUNT SILICON PLANAR ZENER DIODES (2W)

ZM2C ...

Glass Casae MELF(GLASS) Outline : 53

Characteristics at $T_j = 25^\circ\text{C}$

TYPE	Nomonal Zener Voltage V	Zener Voltage Range		Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current mA
		V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZK} (mA)	I_R (μA)	V_R (V)	
ZM2C 3.6	3.6	3.4...3.8	139	5	400	1	80	1	504
ZM2C 3.9	3.9	3.7...4.1	128	5	400	1	30	1	468
ZM2C 4.3	4.3	4.0...4.6	116	4.5	400	1	20	1	434
ZM2C 4.7	4.7	4.4...5.0	106	4.5	550	1	5	1	386
ZM2C 5.1	5.1	4.8...5.4	98	3.5	600	1	5	1	356
ZM2C 5.6	5.6	5.2...6.0	89.5	2.5	650	1	5	2	324
ZM2C 6.2	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
ZM2C 6.8	6.8	6.4...7.2	73.5	2	700	1	5	4	266
ZM2C 7.5	7.5	7.0...7.9	66.5	2	700	0.5	5	5	242
ZM2C 8.2	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
ZM2C 9.1	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
ZM2C 10	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
ZM2C 11	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
ZM2C 12	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
ZM2C 13	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
ZM2C 15	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
ZM2C 16	16	15.3...17.1	31.2	8	700	0.25	0.3	12.2	114
ZM2C 18	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
ZM2C 20	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
ZM2C 22	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
ZM2C 24	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
ZM2C 27	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
ZM2C 30	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
ZM2C 33	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
ZM2C 36	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
ZM2C 39	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
ZM2C 43	43	40...46	11.6	35	1500	0.25	0.5	32.7	43
ZM2C 47	47	44...50	10.6	40	1500	0.25	0.5	35.8	39
ZM2C 51	51	48...54	9.8	48	1500	0.25	0.5	38.8	36
ZM2C 56	56	52...60	9	55	2000	0.25	0.5	42.6	32
ZM2C 62	62	58...66	8.1	60	2000	0.25	0.5	47.1	29
ZM2C 68	68	64...72	7.4	75	2000	0.25	0.5	51.7	27
ZM2C 75	75	70...79	6.7	90	2000	0.25	0.5	56	24
ZM2C 82	82	77...87	6.1	100	3000	0.25	0.5	62.2	22
ZM2C 91	91	85...96	5.5	125	3000	0.25	0.5	69.2	20
ZM2C 100	100	94...106	5	175	3000	0.25	0.5	76	18
ZM2C 110	110	104...116	4.5	250	4000	0.25	0.5	83.6	17
ZM2C 120	120	114...127	4.2	325	4500	0.25	0.5	91.2	15
ZM2C 130	130	124...141	3.8	400	5000	0.25	0.5	98.8	14
ZM2C 150	150	138...156	3.3	575	6000	0.25	0.5	114	12
ZM2C 160	160	153...171	3.1	650	6500	0.25	0.5	121.6	11
ZM2C 180	180	168...191	2.8	725	7000	0.25	0.5	136.8	10
ZM2C 200	200	188...212	2.5	900	8000	0.25	0.5	152	9

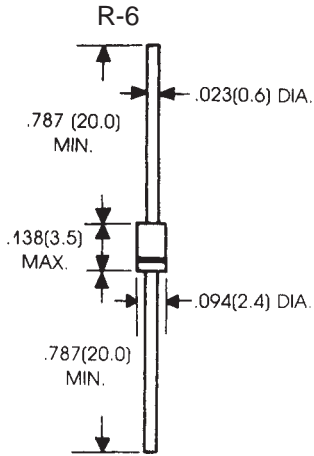
1) Tested with pulses $t_p = 20$ ms.

2) Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

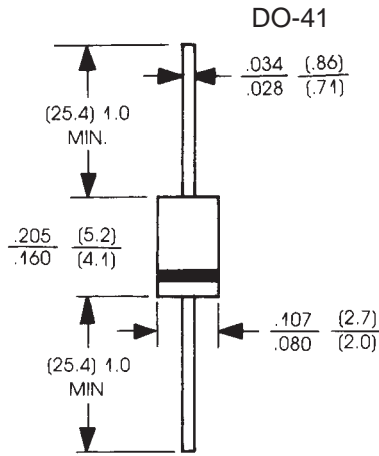


OUTLINE

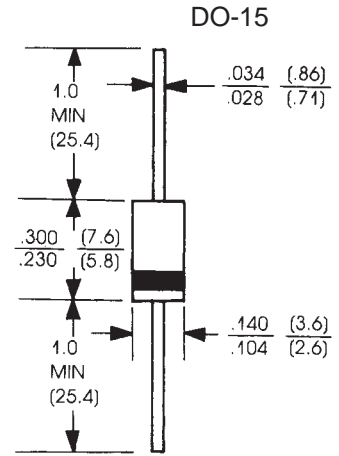
Unit: Inch (mm)



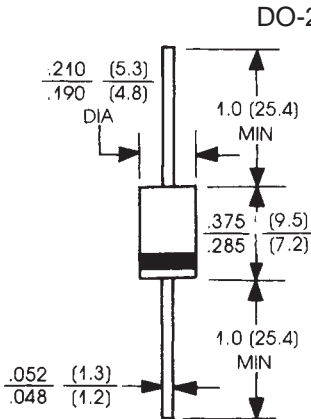
1



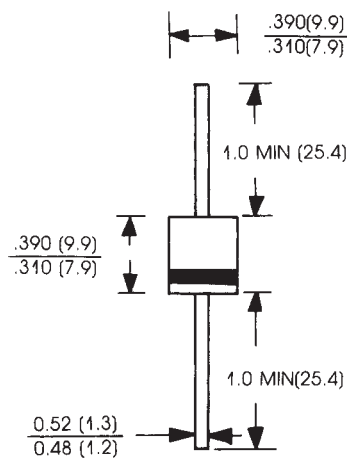
2



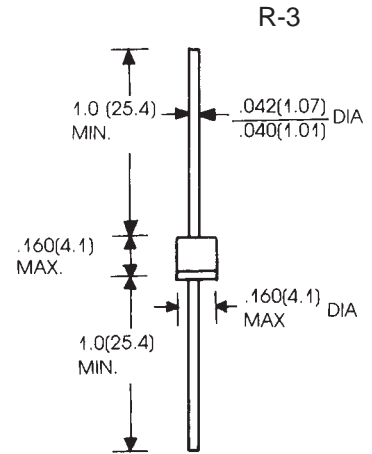
3



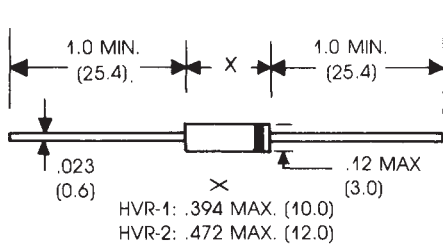
4



5

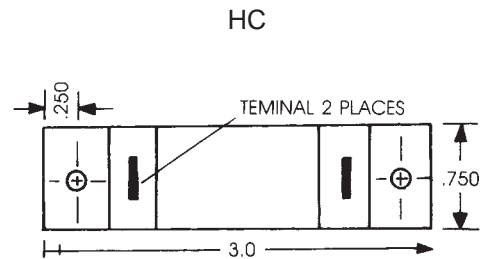


6

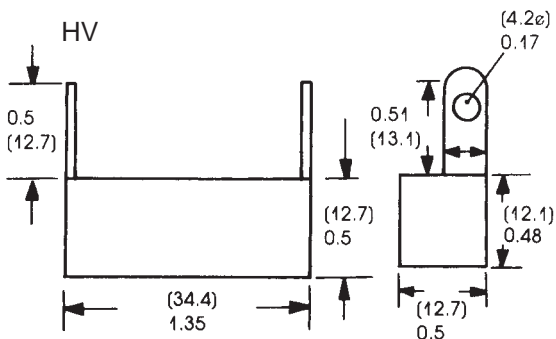


7

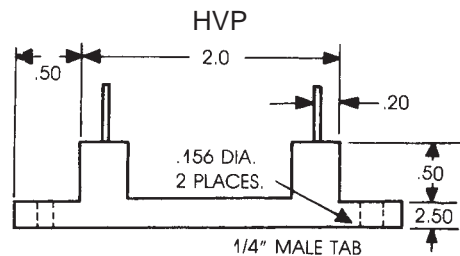
8



10



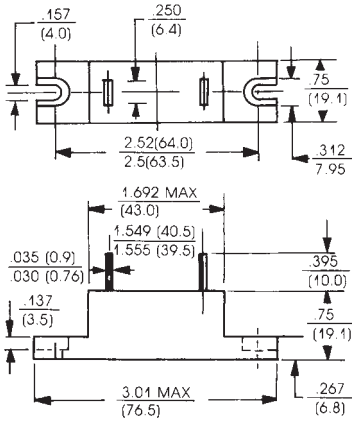
9



OUTLINE

Unit: Inch (mm)

HVP

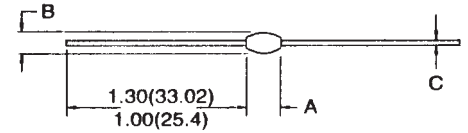


11

	A	B	C
M50FF(X) M100FF(X)	.300 (7.62) MAX	.130 (3.3) MAX	.020±.003 (.50±.08)
M150FF(X)	.350 (8.89) MAX	.130 (3.3) MAX	.020±.003 (.50±.08)
X20FF(X) X50FF(X) X100FF(X) X150FF(X)	.350 (8.89) MAX	.170 (4.3) MAX	.030±.003 (.77±.08)
Z20FF(X) Z50FF(X) Z100FF(X)	.350 (8.89) MAX	.215 (5.5) MAX	.040±.003 (1.02±.08)

Hermetic

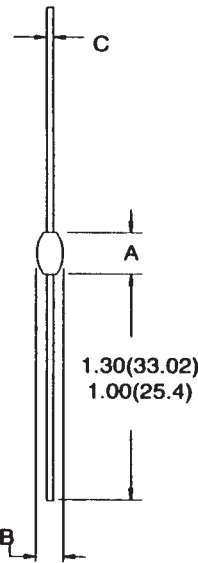
12



Hermetic

13

	A	B	C
1N6512	.310 (7.87) Max.	.185±.030	.040±.003
1N6513	.250 (7.80) MIN.	(4.7±.76)	(1.02±0.8)
1N6514	.310 (7.87) Max.	.185±.030	.040±.003
1N6515	.250 (7.80) MIN.	(4.7±.76)	(1.02±0.8)
1N6516	.310 (7.87) Max.	.185±.030	.040±.003
1N6517	.250 (7.80) MIN.	(4.7±.76)	(1.02±0.8)
1N6518	.310 (7.87) Max.	.185±.030	.040±.003
1N6519	.250 (7.80) MIN.	(4.7±.76)	(1.02±0.8)
1N6520	.310 (7.87) Max.	.135±.035	.030±.003
1N6521	.250 (7.80) MIN.	(3.43±.89)	(.76±0.8)
1N6522	.310 (7.87) Max.	.185±.030	.030±.003
1N6523	.250 (7.80) MIN.	(3.43±.89)	(.76±0.8)

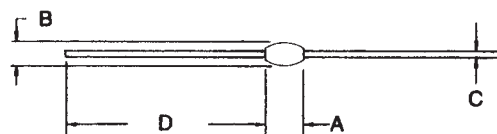


	A	B	C
1N6524	.250 (8.60) Max.	.135±.035	.030±.003
1N6525	.200 (5.08) MIN.	(3.43±.89)	(.76±0.8)
1N6526	.320 (8.13) Max.	.135±.035	.030±.003
1N6527	.250 (6.60) MIN.	(3.43±.89)	(.76±0.8)
1N6528	.200 (5.08) Max.	.095±.036	.020±.003
1N6529	.140 (3.58) MIN.	(2.41±.89)	(.50±0.8)
1N6530	.220 (5.59) Max.	.095±.035	.020±.003
1N6531	.180 (4.06) MIN.	(2.41±.89)	(.50±0.8)
1N6532	.240 (8.10) Max.	.095±.035	.020±.003
1N6533	.180 (4.57) MIN.	(2.41±.89)	(.50±0.8)
1N6534	.300 (7.82) Max.	.095±.035	.020±.003
1N6535	.240 (6.10) MIN.	(2.41±.89)	(.50±0.8)

Hermetic

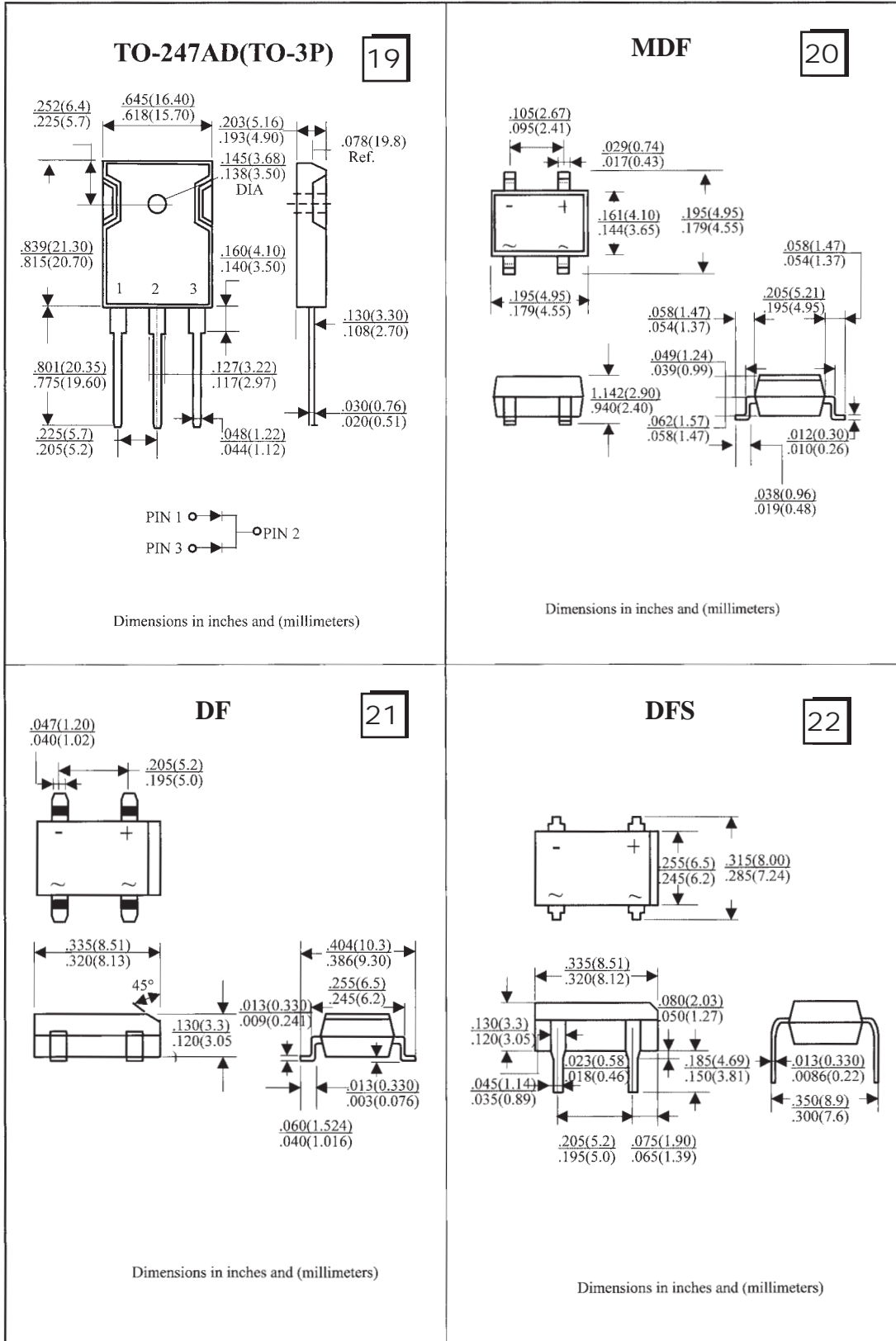
14

	A	B	C	D
X06FF(X)	.185 Max (4.7)	.110 Max (2.8)	.030±.003 (.77±0.6)	1.00 Min (25.4)
X10FF(X)	.185 Max (4.7)	.110 Max (2.8)	.030±.003 (.77±0.6)	1.00 Min (25.4)
Z06FF(X)	.185 Max (4.7)	.180 Max (4.6)	.040±.003 (1.0±0.5)	1.00 Min (25.4)
Z10FF(X)	.185 Max (4.7)	.180 Max (4.6)	.040±.003 (1.0±0.6)	1.00 Min (25.4)



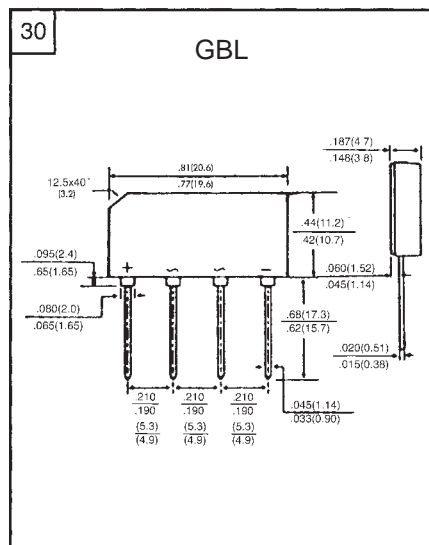
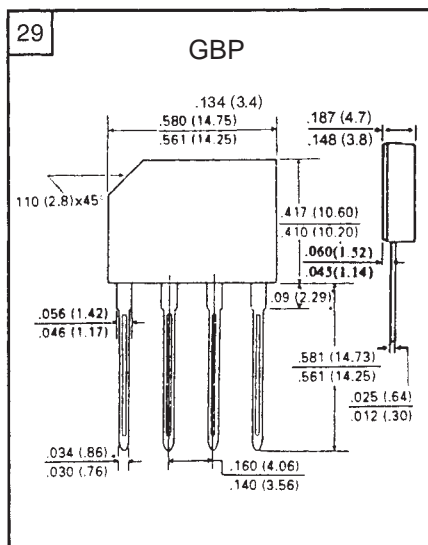
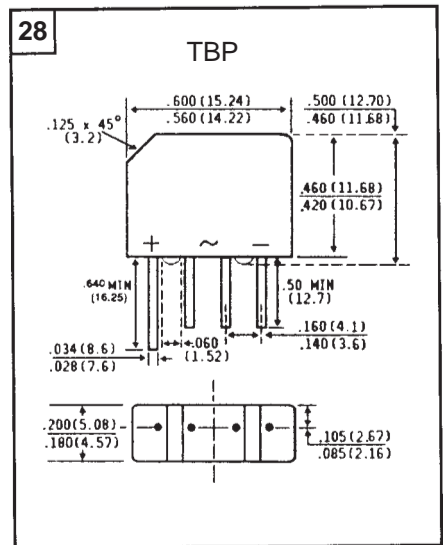
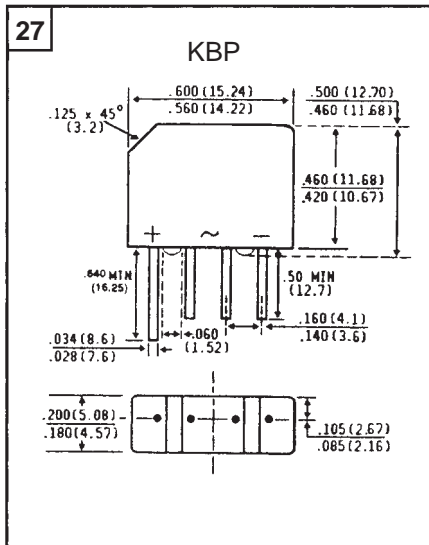
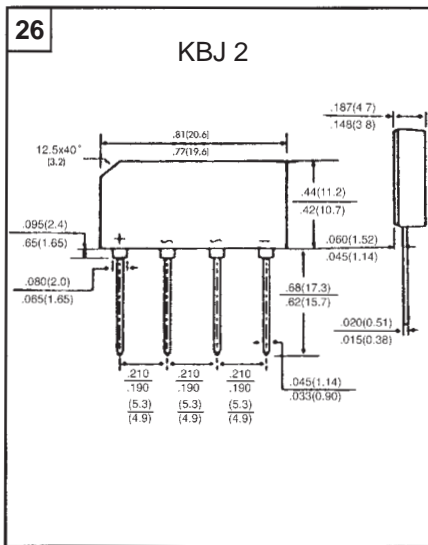
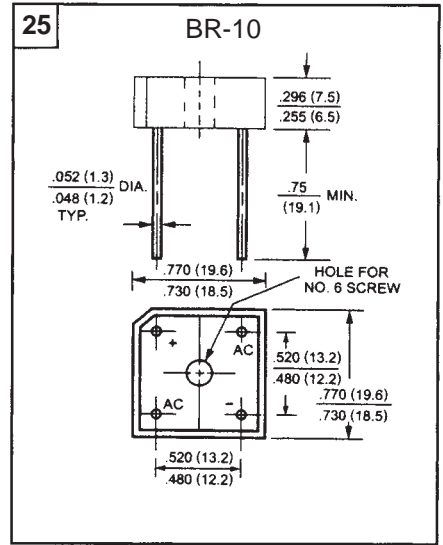
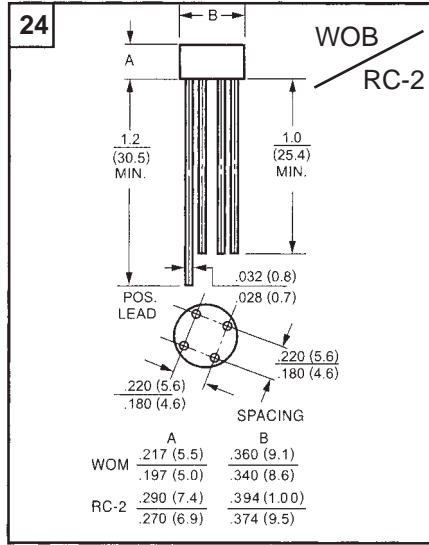
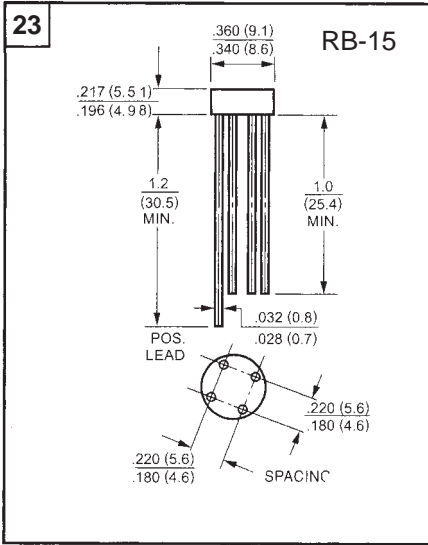
OUTLINE

BRIDGE



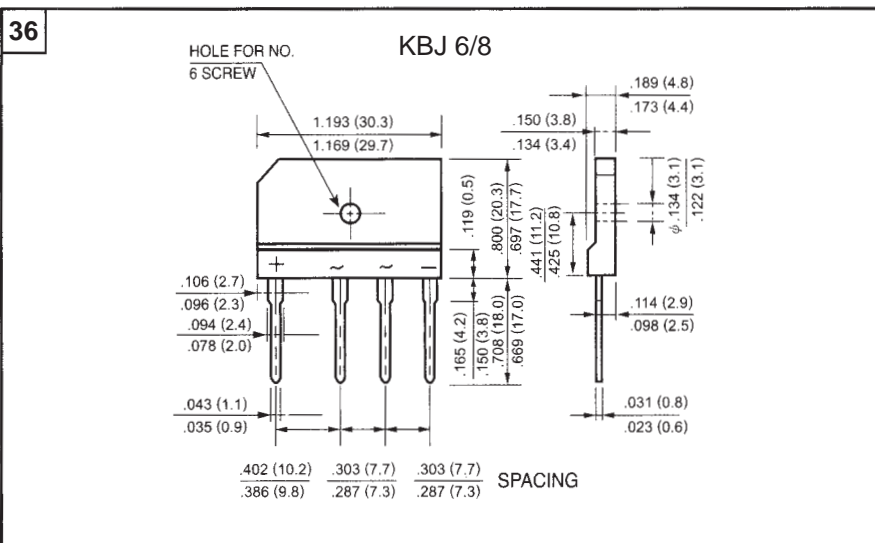
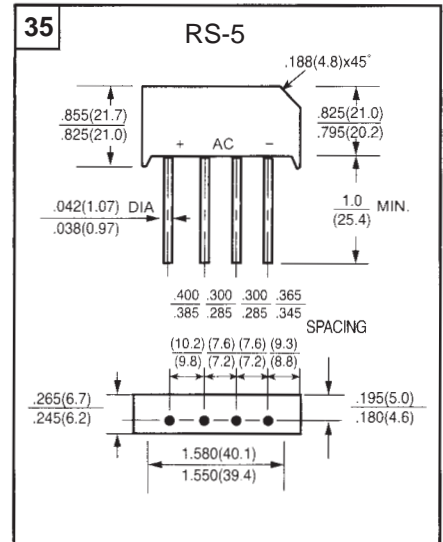
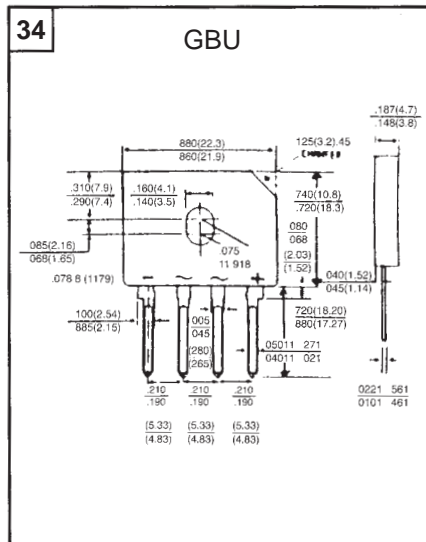
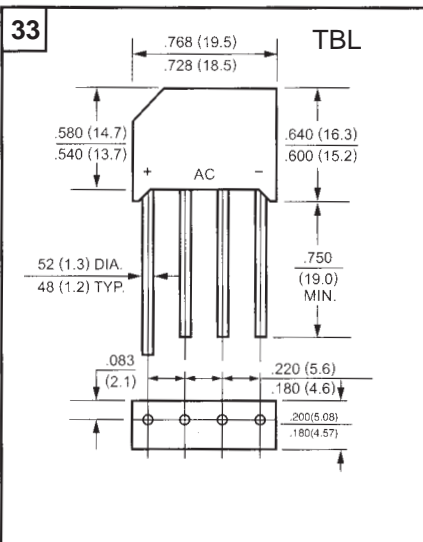
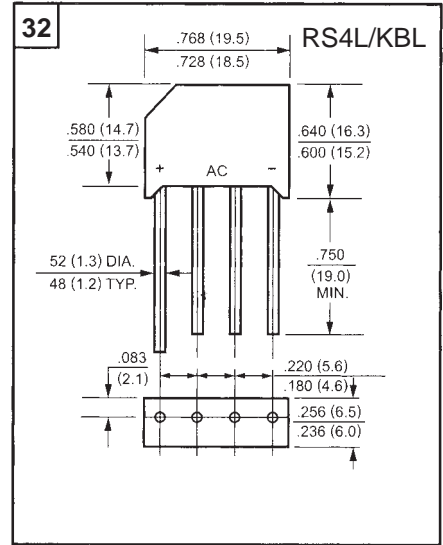
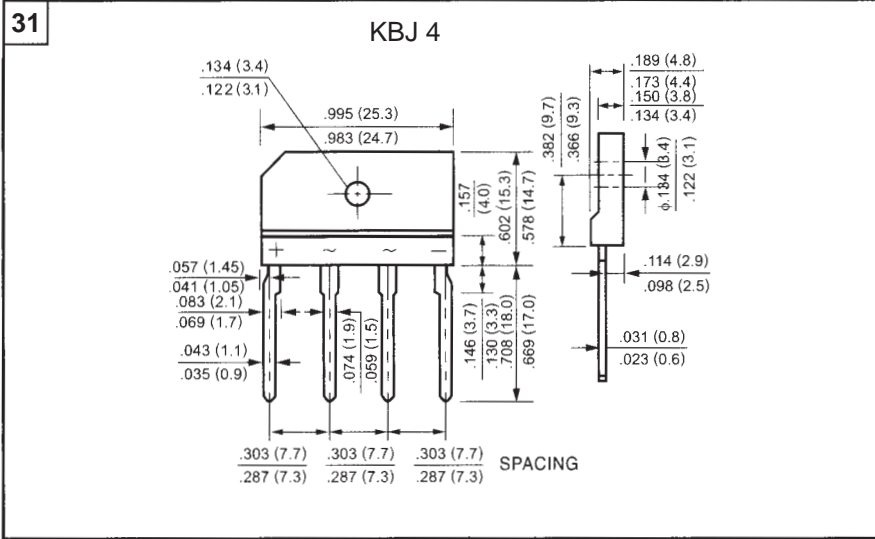
OUTLINE

Unit: inch(mm)



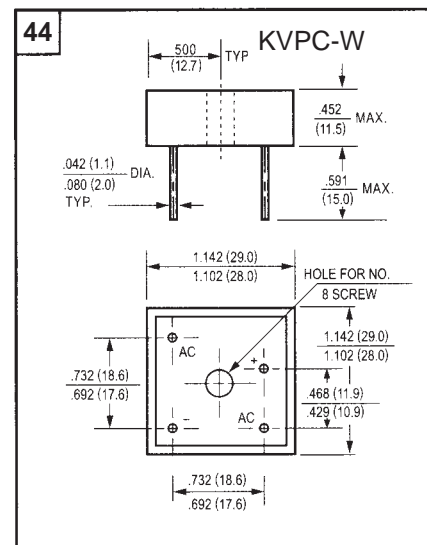
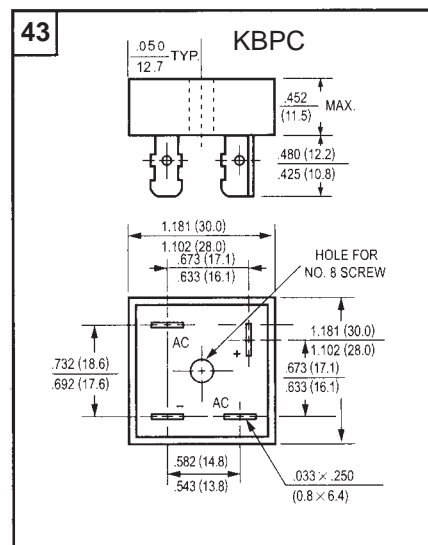
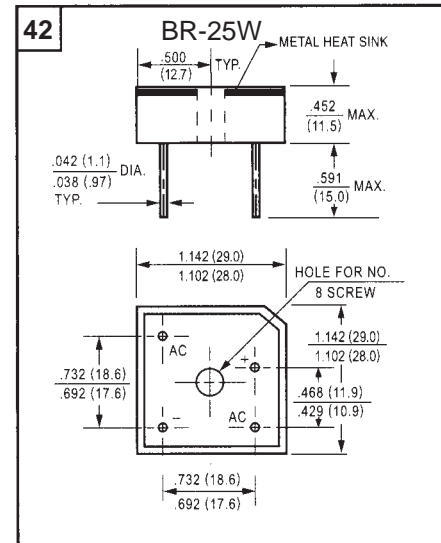
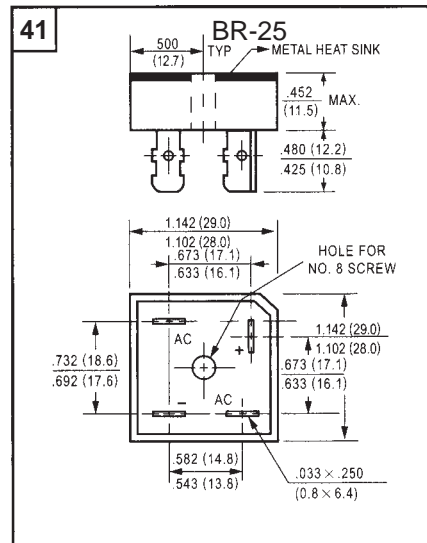
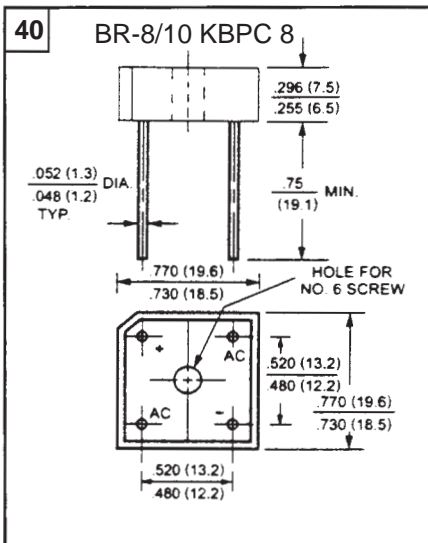
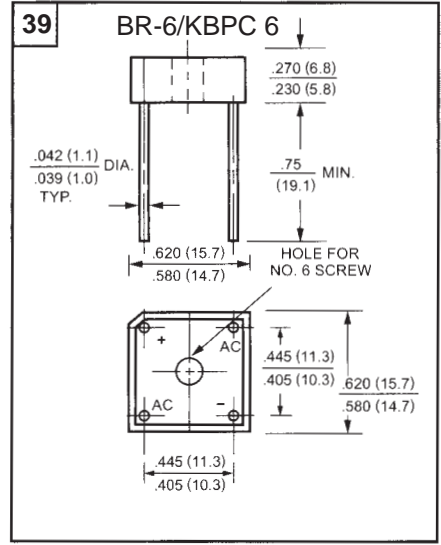
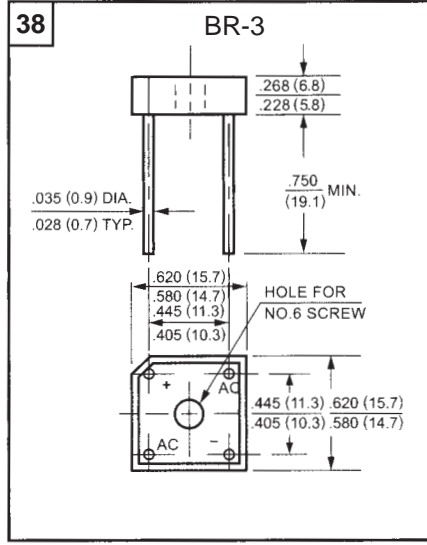
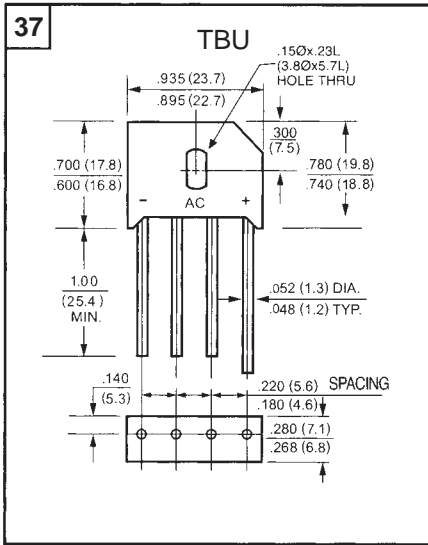
OUTLINE

Unit: inch(mm)



OUTLINE

Unit: inch(mm)



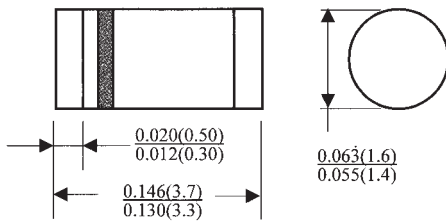


OUTLINE

SURFACE MOUNT

MINI MELF(DO-213AA) (SOD-80/LL34)

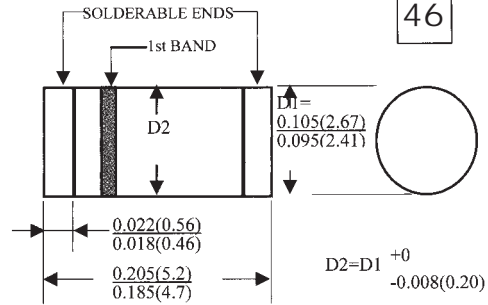
45



Dimensions in inches and (millimeters)

MELF(DO-213AB)

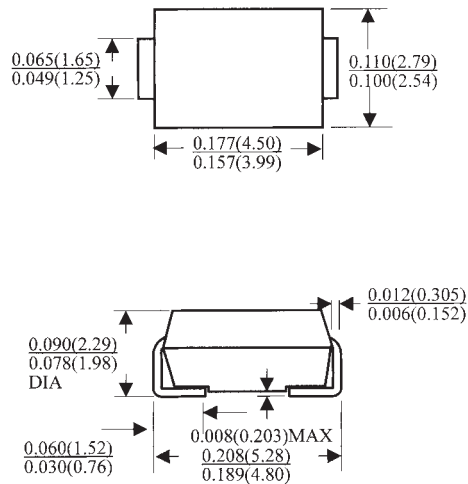
46



Dimensions in inches and (millimeters)

SMA(DO-214AC)

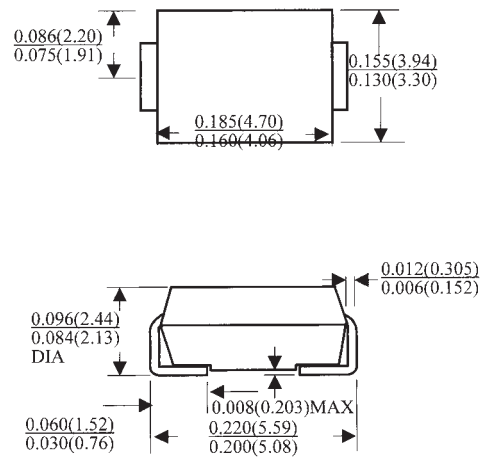
47



Dimensions in inches and (millimeters)

SMB(DO-214AA)

48

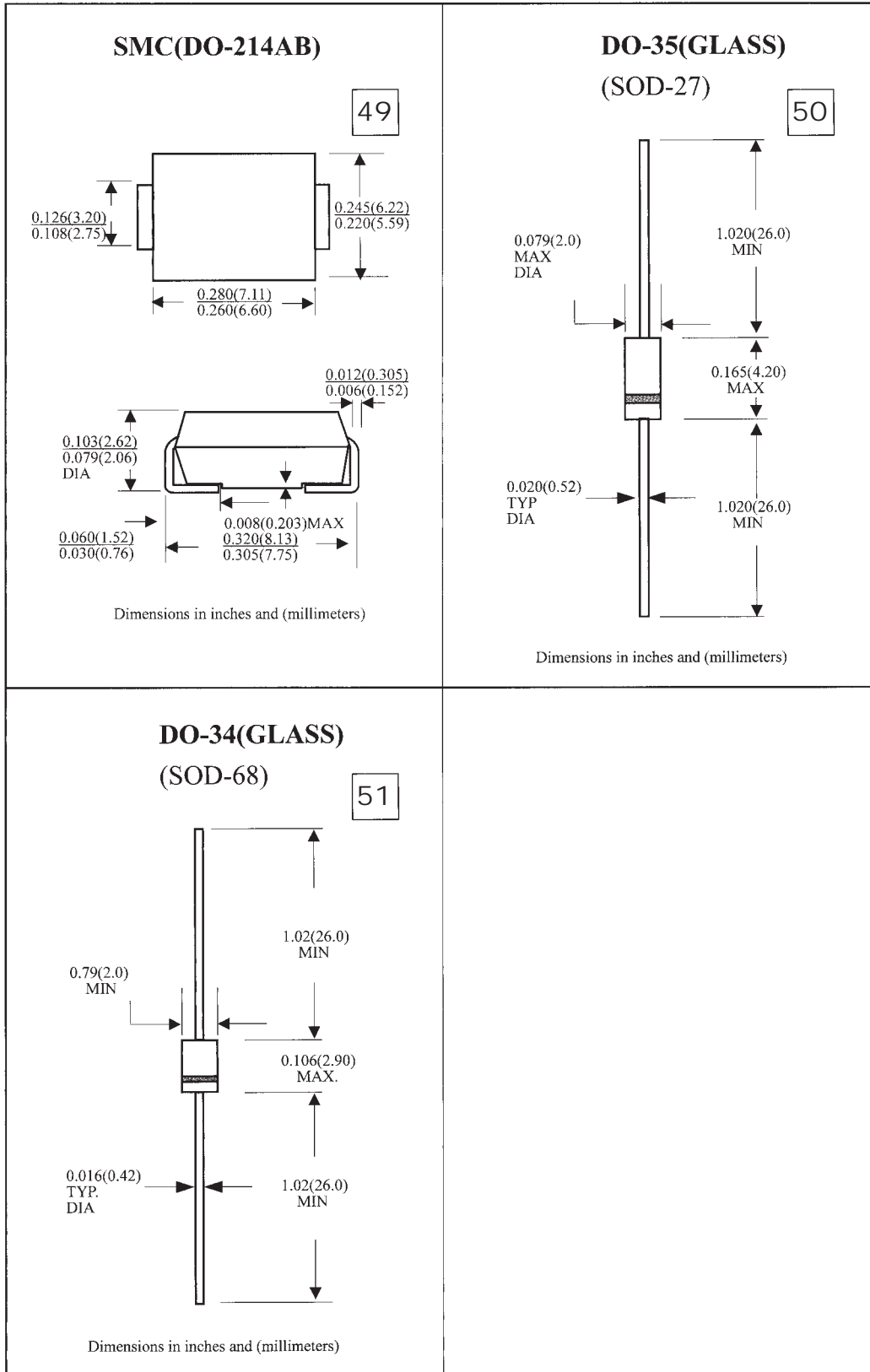


Dimensions in inches and (millimeters)



OUTLINE

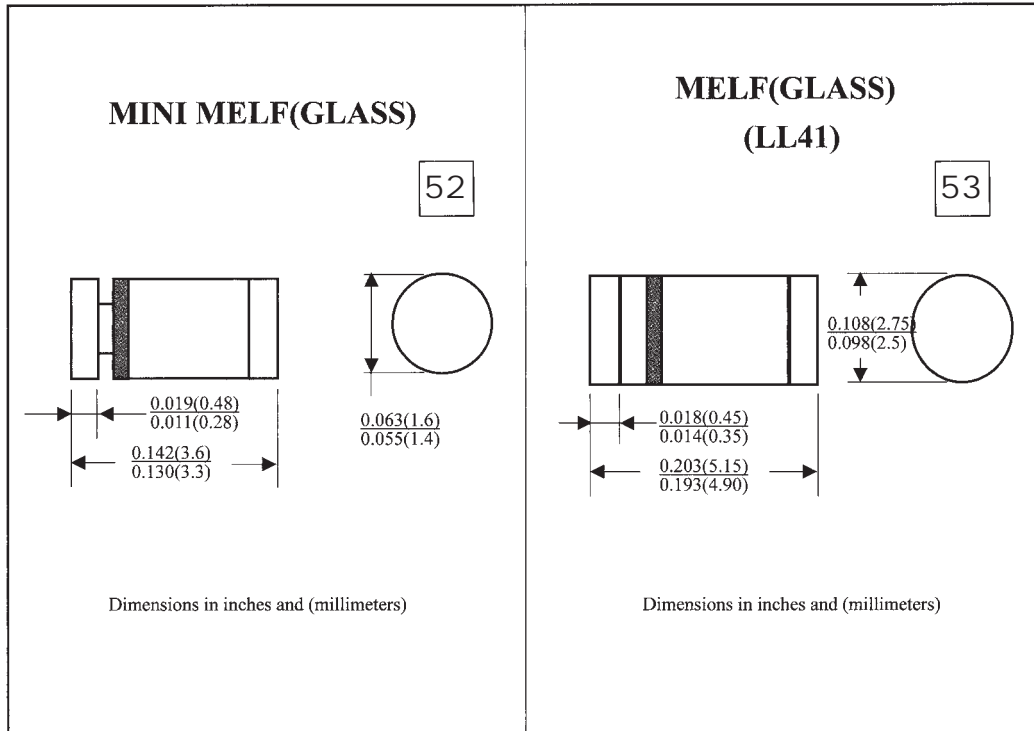
SURFACE MOUNT





OUTLINE

SURFACE MOUNT

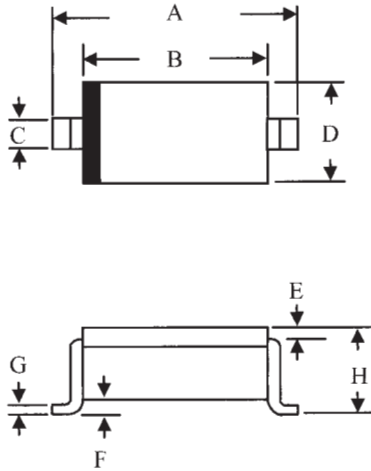




OUTLINE

SOD-323

54

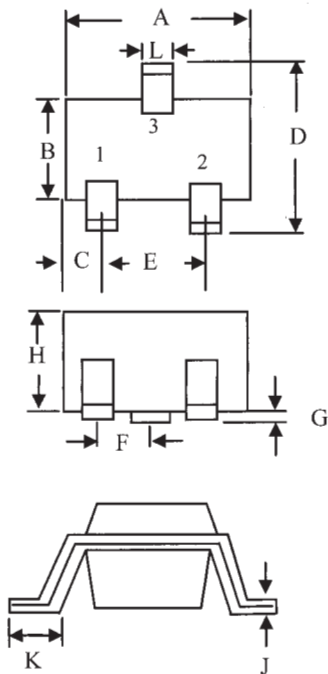


DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	0.090	0.106	2.30	2.70
B	0.063	0.070	1.60	1.80
C	0.010	0.016	0.25	0.40
D	0.045	0.057	1.15	1.45
E	0.008(TYP.)		0.20(TYP.)	
F	0.004(TYP.)		0.100(TYP.)	
G	-----	0.006	-----	0.150
H	0.031	0.039	0.80	1.00

Dimensions in inches and (millimeters)

SOT-23(TO-236AB)

55

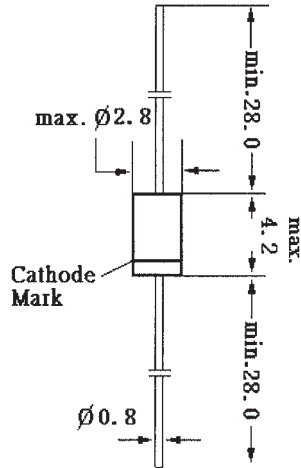


DIM	Inches		Millimeters	
	Min	Max	Min	Max
A	0.106	0.122	2.70	3.10
B	0.047	0.055	1.19	1.40
C	0.020	0.039	0.46	1.00
D	0.083	0.118	2.10	3.00
E	0.067	0.083	1.70	2.10
F	0.033	0.041	0.85	1.05
G	0.0004	0.0050	0.01	0.13
H	0.035	0.043	0.89	1.10
J	0.003	0.010	0.076	0.250
K	0.012	0.024	0.30	0.61
L				

Dimensions in inches and (millimeters)



OUTLINE



56

Glass case JEDEC DO-41
Dimensions in mm

(Case 26)

57

