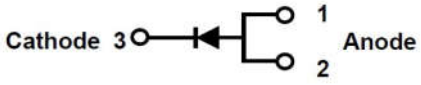
Reverse Voltage - 40 to 200 V

Forward Current - 10 A



FEATURES

The plastic package carries Underwriters Laboratory Flammability Classification 94V-0

For surface mounted applications

Built-in strain relief,ideal for automated placement

Low reverse leakage

High forward surge current capability

High temperature soldering guaranteed 250℃/10 seconds at terminals

Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

TO-277

Case: TO-277

Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.003g / 0.092oz

Absolute Maximum Ratings and Electrical characteristics
Ratings at 25 ° ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load,for capacitive load, derate by 20 %

Parameter	Symbols	MBR10U100H	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current TL=100°C	$I_{F(AV)}$	10.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	175.0	A
Maximum Instantaneous Forward Voltage at 10 A	V_F	0.85	V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage T_A = 25°C T_A = 125°C	I_R	0.05 10	mA
Typical Thermal Resistance	$R_{\theta JA}$	60.0	°C/W
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

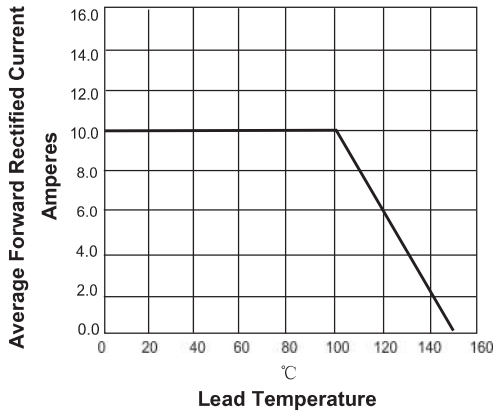


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

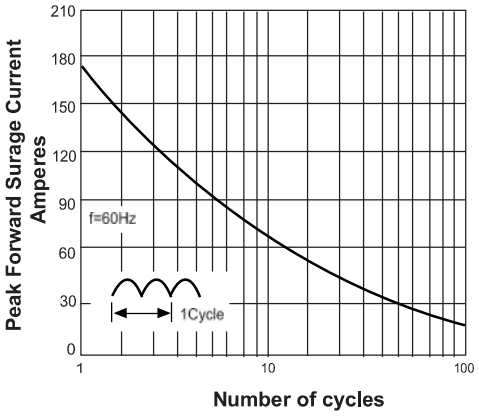


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

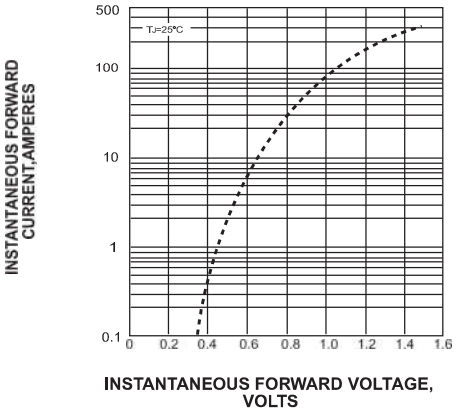
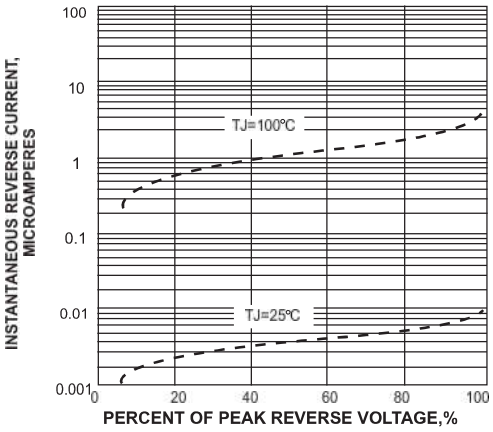
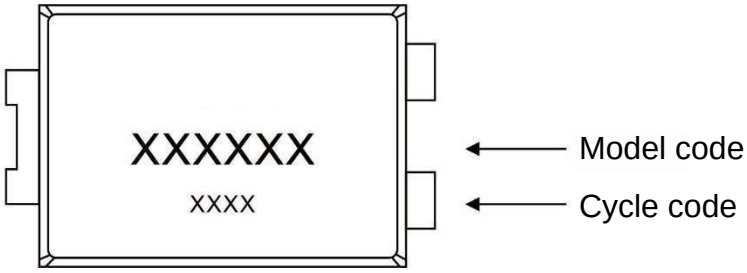


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram

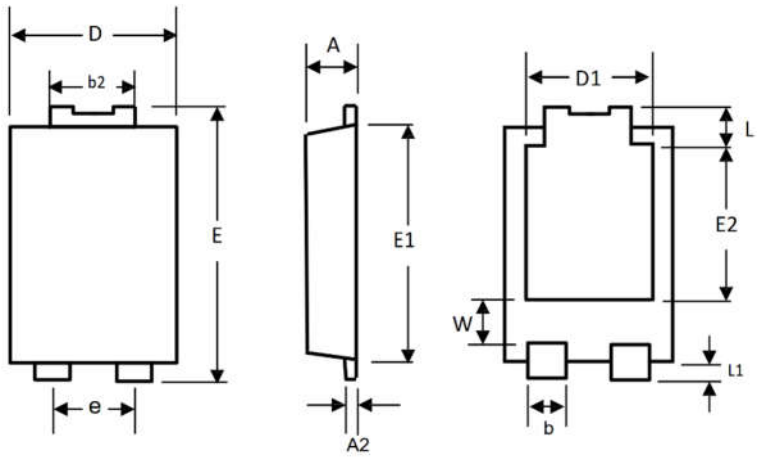


Ordering information

Package	Packing Description	Packing Quantity
TO-277	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

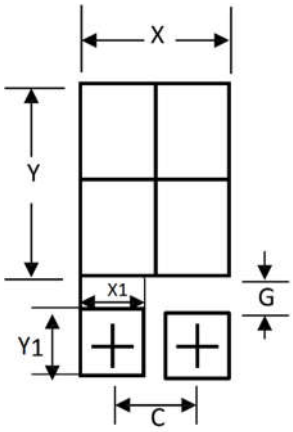
Package Dimensions

TO-277



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.1	1.2	43	47
A2	0.3	0.4	12	16
b1	0.8	1	32	39
b2	1.7	1.9	67	75
D	3.9	4.1	154	162
D1	3.054		120	
E	6.4	6.6	252	260
e	1.84		73	
E1	5.3	5.5	209	217
E2	3.549		140	
L	0.8	1	32	39
L1	0.5	0.7	20	28
W	1.1	1.4	43	55

The recommended mounting pad size



Dim	Min
C	1.8
G	0.9
X	3.4
X1	1.4
Y	4.9
Y1	1.4

unit:mm

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