

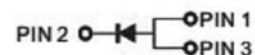
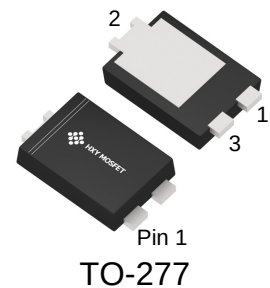


Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SB2080L	TO-277	SB2080L	5000



Maximum Ratings (Ta=25°C unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Type Number	SB2080L	Units
Maximum Recurrent Peak Reverse Voltage	80	V
Maximum RMS Voltage	56	V
Maximum DC Blocking Voltage	80	V
Maximum Average Forward Rectified Current See Fig. 1	20.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	200	A
Maximum Instantaneous Forward Voltage at 20.0A	0.6	V
Maximum DC Reverse Current Ta=25°C	0.1	mA
at Rated DC Blocking Voltage Ta=125°C	20	mA
Typical Junction Capacitance (Note1)	600	pF
Typical Thermal Resistance R JA (Note 2)	60	°C/W
Operating Temperature Range Tj	-50 to +150	°C
Storage Temperature Range Tstg	-50 to +150	°C

Note : 1.FR-4 PCB, 2oz.Copper.

2.Polyimide PCB, 2oz.Copper.Cathode pad dimensions 18.8mm x 14.4mm.Anode pad dimensions 5.6mm x 14.4mm.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

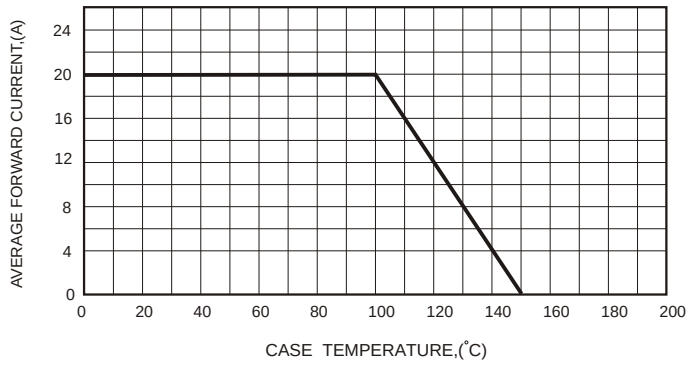


FIG.2-TYPICAL FORWARD CHARACTERISTICS

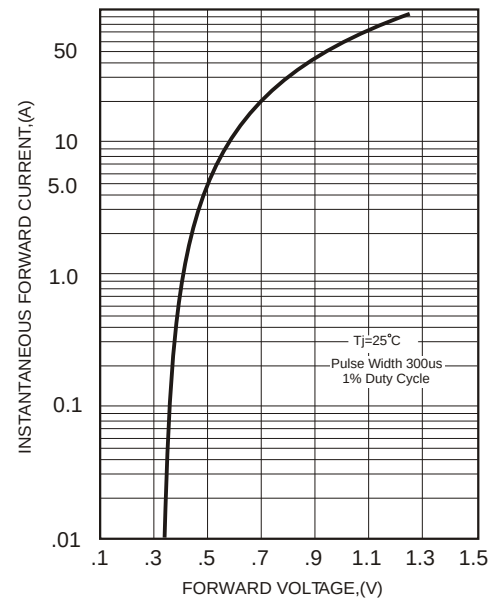


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

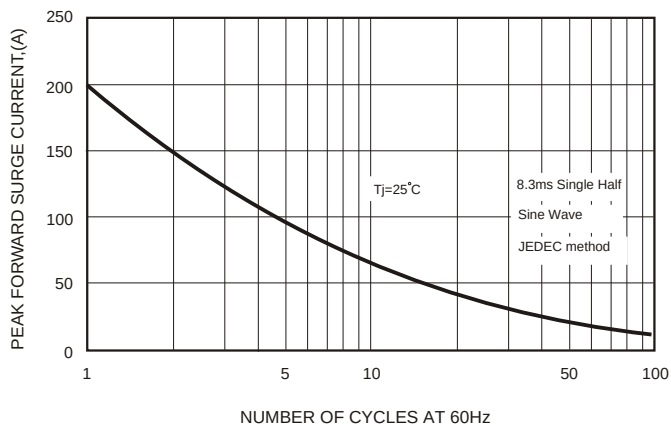


FIG.4-TYPICAL JUNCTION CAPACITANCE

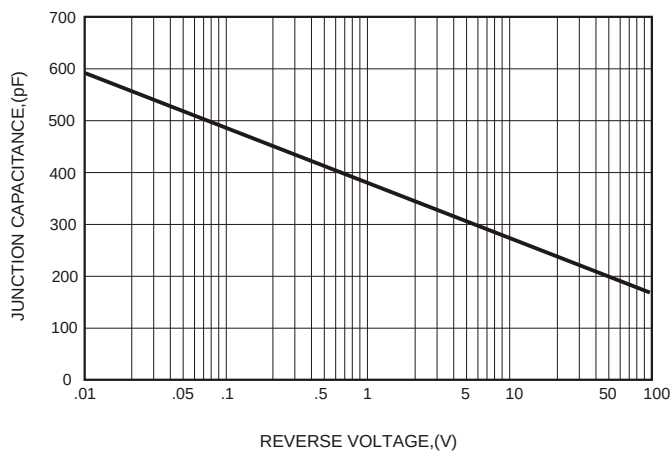
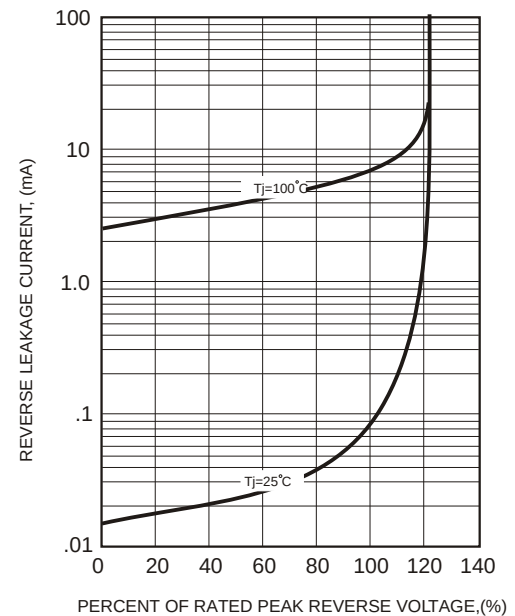


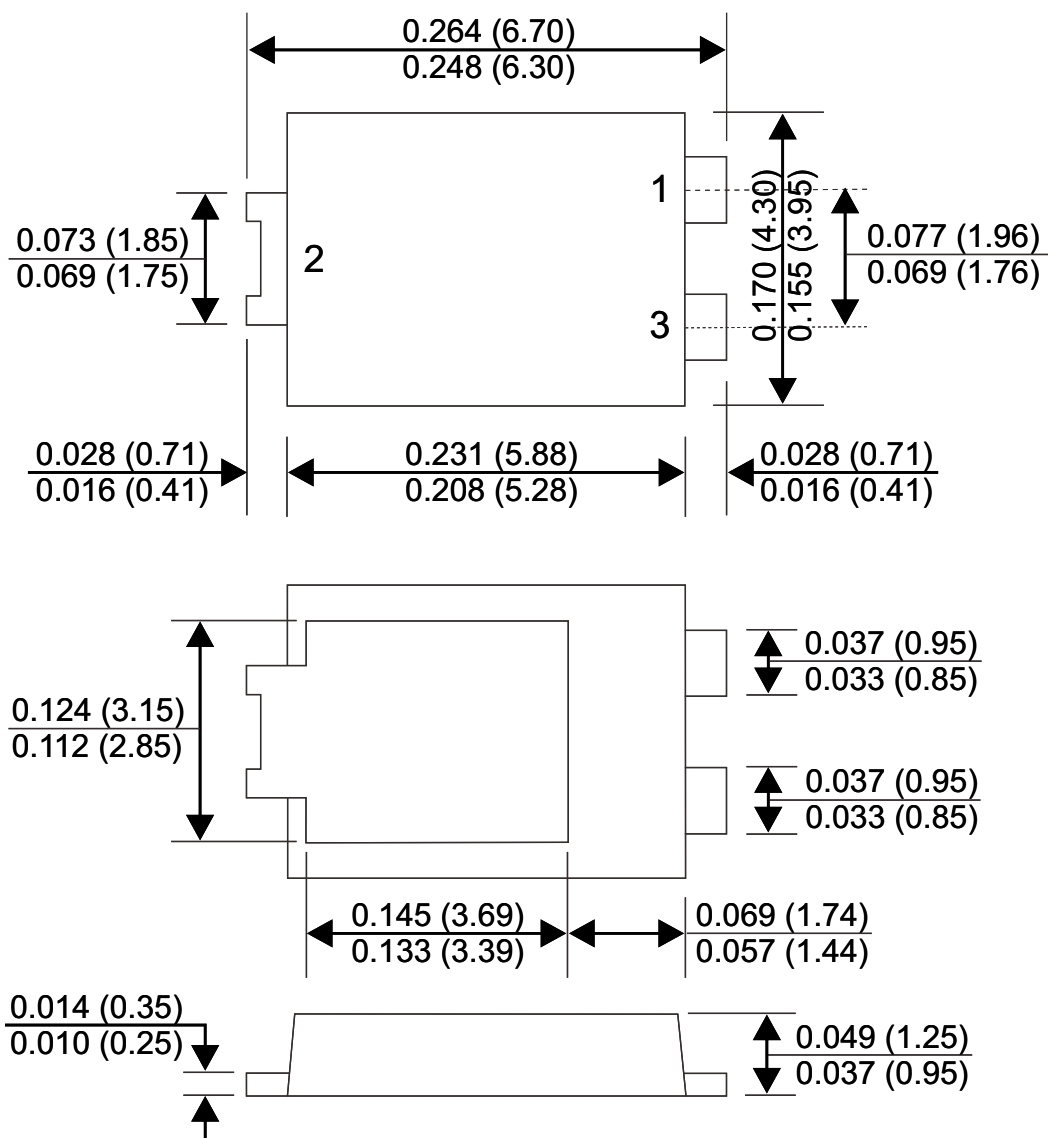
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

TO-277



Dimensions in inches and (millimeters)



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