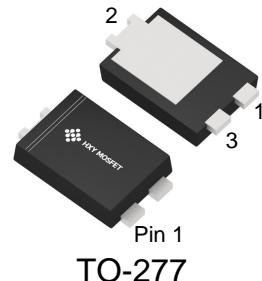




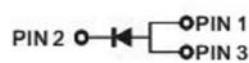
Features

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



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
V10P20-M3/86A	TO-277	SB10200	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		Limit	Units
Maximum Recurrent Peak Reverse Voltage		200	V
Maximum RMS Voltage		140	V
Maximum DC Blocking Voltage		200	V
Maximum Average Forward Rectified Current	See Fig. 1	10.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		150	A
Maximum Instantaneous Forward Voltage at 10.0A		0.9	V
Maximum DC Reverse Current	Ta=25°C	0.15	mA
at Rated DC Blocking Voltage	Ta=125°C	50	mA
Typical Junction Capacitance (Note1)		570	pF
Typical Thermal Resistance R _{JA} (Note 2)		60	°C/W
Operating Temperature Range T _J		-50 to +175	°C
Storage Temperature Range T _{Stg}		-50 to +175	°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

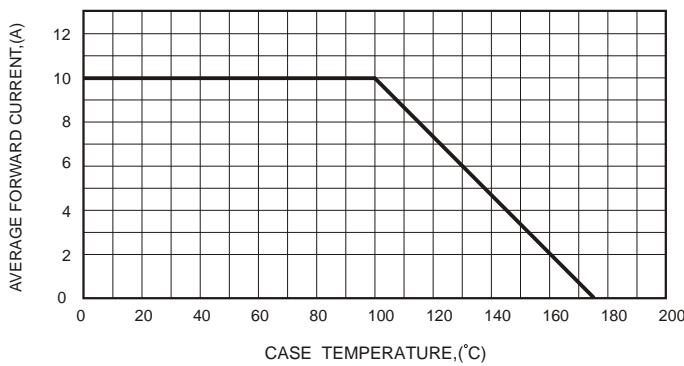


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

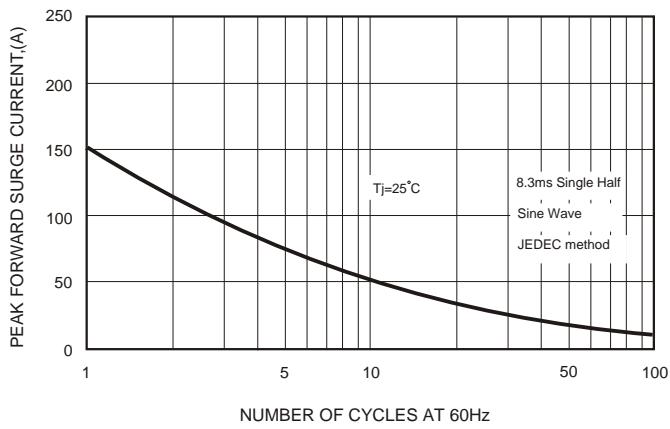


FIG.4-TYPICAL JUNCTION CAPACITANCE

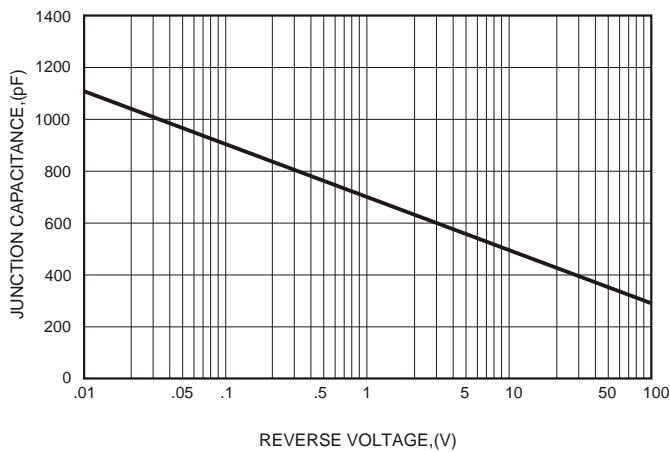


FIG.2-TYPICAL FORWARD CHARACTERISTICS

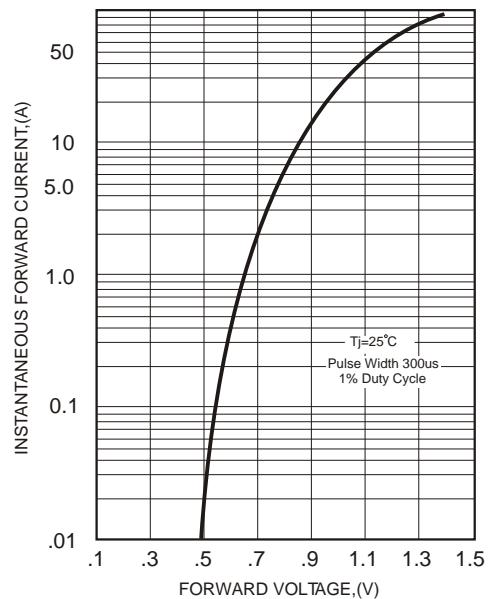
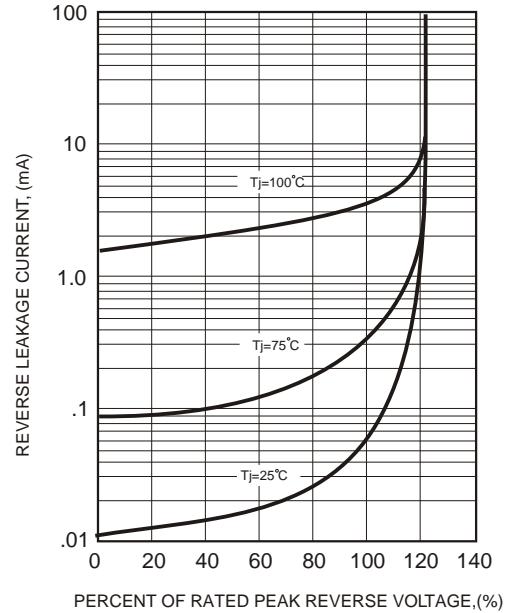


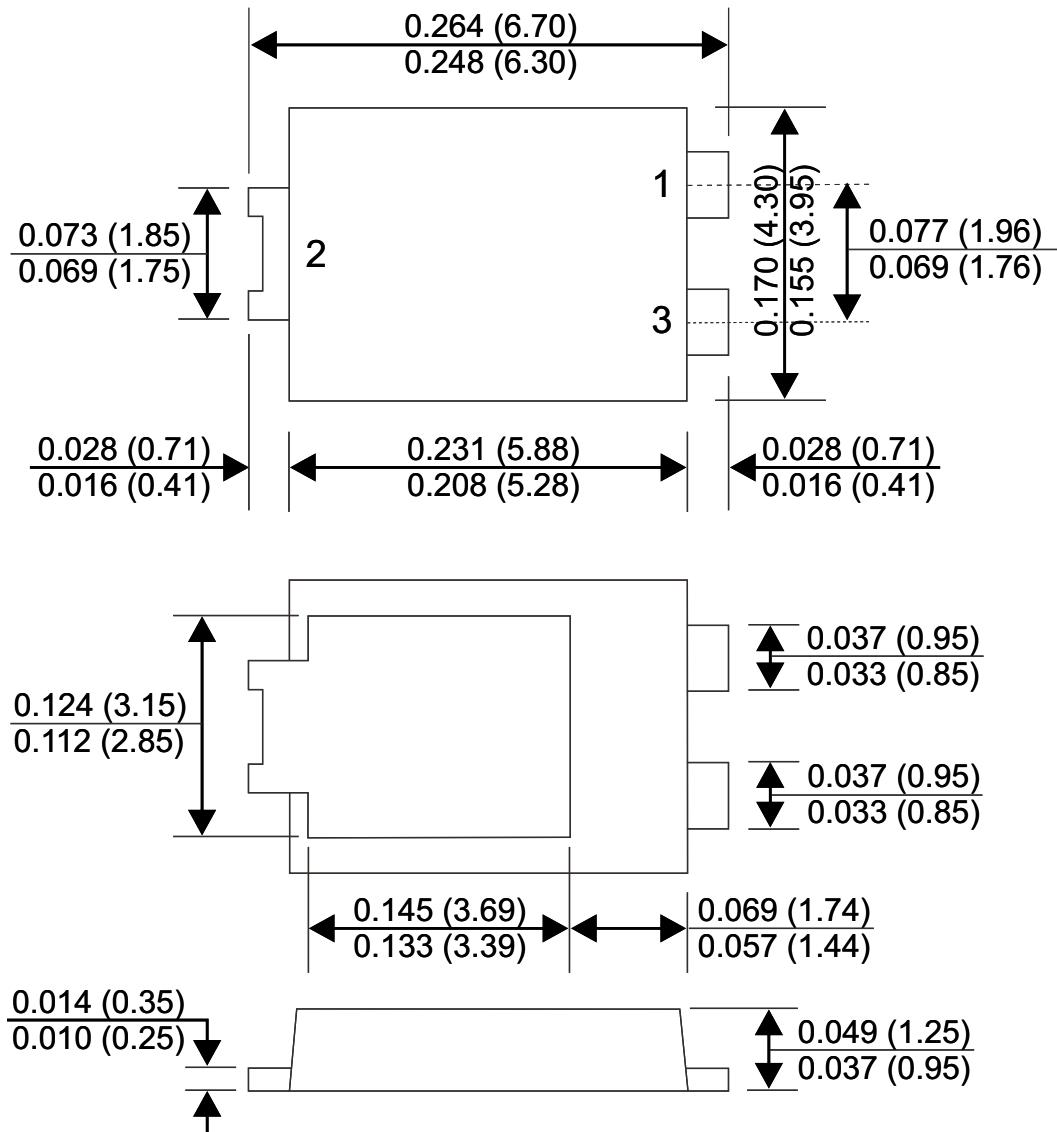
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

TO-277



Dimensions in inches and (millimeters)



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