

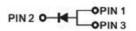
### **Features**

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

## **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
SB10150- SB10200	TO-277	SB10150/ SB10200	5000





### Maximum Ratings (Ta=25 unless otherwise noted)

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	SB10150	SB10200	Units
Maximum Recurrent Peak Reverse Voltage	150	200	V
Maximum RMS Voltage	105	140	V
Maximum DC Blocking Voltage	150	200	V
Maximum Average Forward Rectified Current			
See Fig. 1	10.0		А
Peak Forward Surge Current, 8.3 ms single half sine-wave			
superimposed on rated load (JEDEC method)	1	50	А
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	5	60	mA
Typical Junction Capacitance (Note1)	5	70	pF
Typical Thermal Resistance R JA (Note 2)	60		°C/W
Operating Temperature Range T <sub>J</sub>	-50 to +175		°C
Storage Temperature Range Tsrg	-50 to +175		°C

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

2.Polymide 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

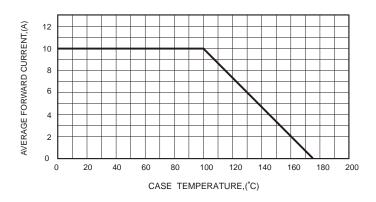


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

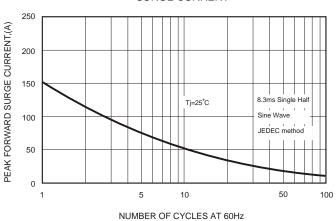


FIG.4-TYPICAL JUNCTION CAPACITANCE

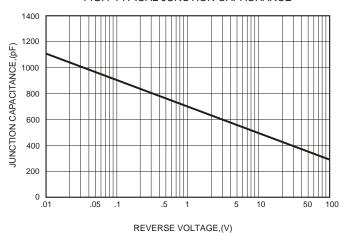


FIG.2-TYPICAL FORWARD

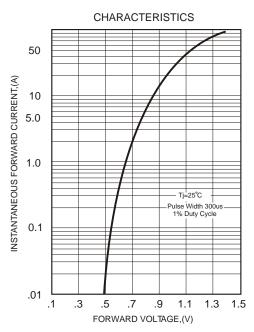
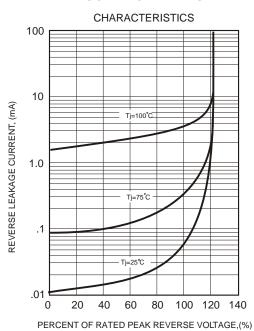


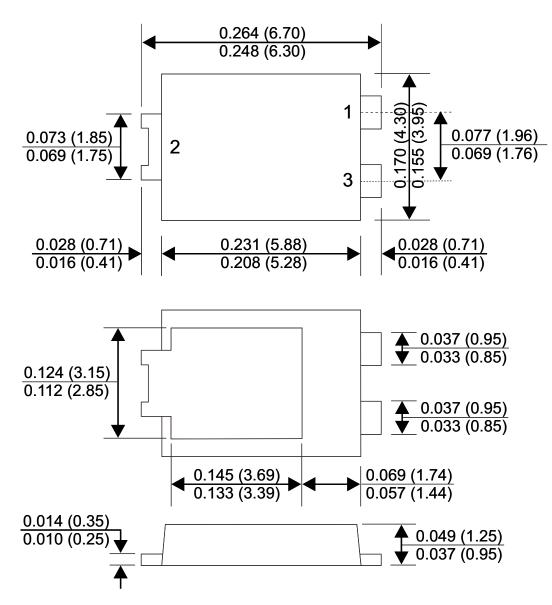
FIG.5 - TYPICAL REVERSE





## **Package Outline Dimensions**

TO-277



Dimensions in inches and (millimeters)



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