



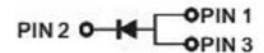
Features

- Low forward voltage drop.
- Excellent high temperature stability.
- Fast switching capability.
- Suffix "G" indicates Halogen-free part, ex.CP10S45SG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SB10100L	TO-277	SB10100L	5000



Maxmim Ratings (Ta=25 unless otherwise noted)

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

TYPE NUMBER	SB10100L	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	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	0.67	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	0.1 20	mA mA
Typical Junction Capacitance (Note1)	500	pF
Typical Thermal Resistance R _{JA} (Note 2)	60	°C/W
Operating Temperature Range T _J	-50 to +150	°C
Storage Temperature Range T _{STG}	-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

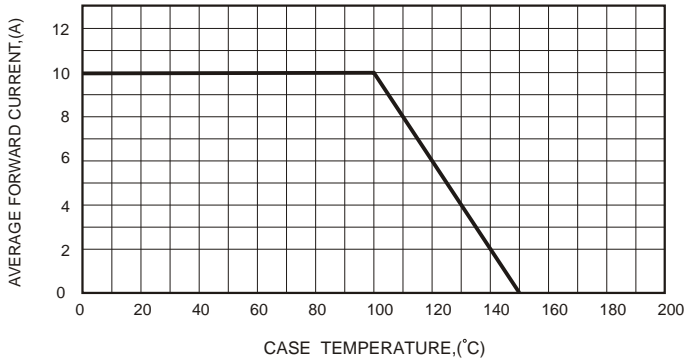


FIG.2-TYPICAL FORWARD CHARACTERISTICS

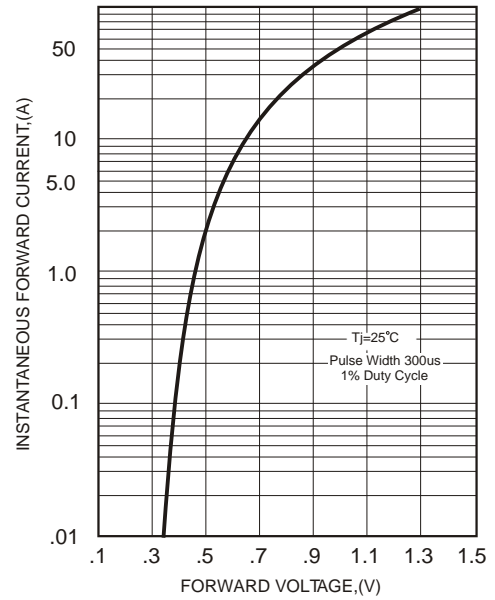


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

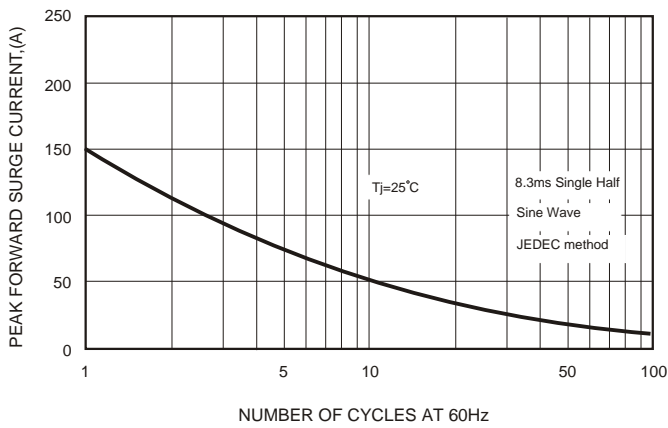


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

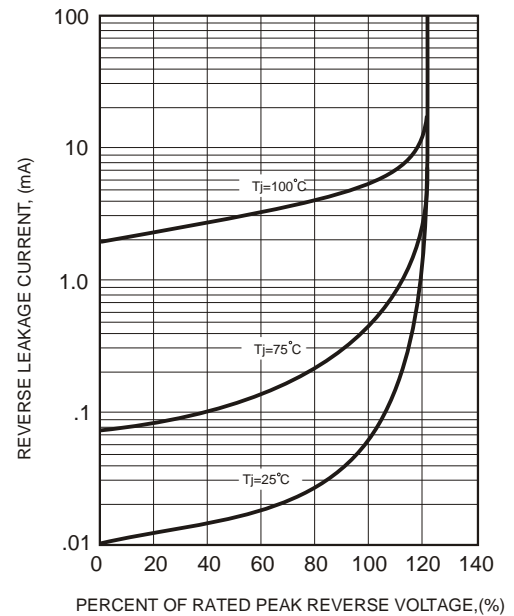
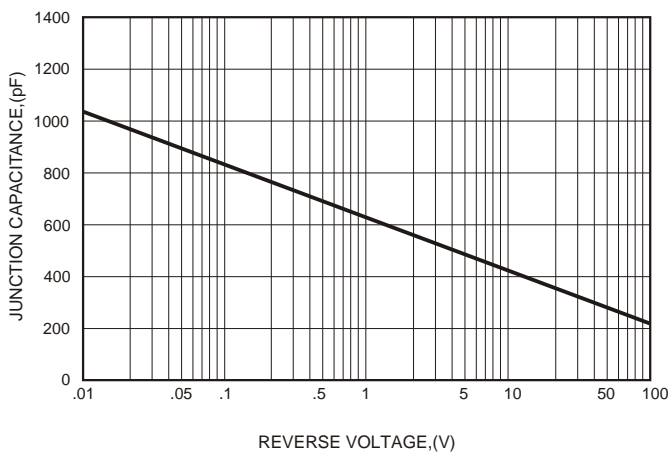
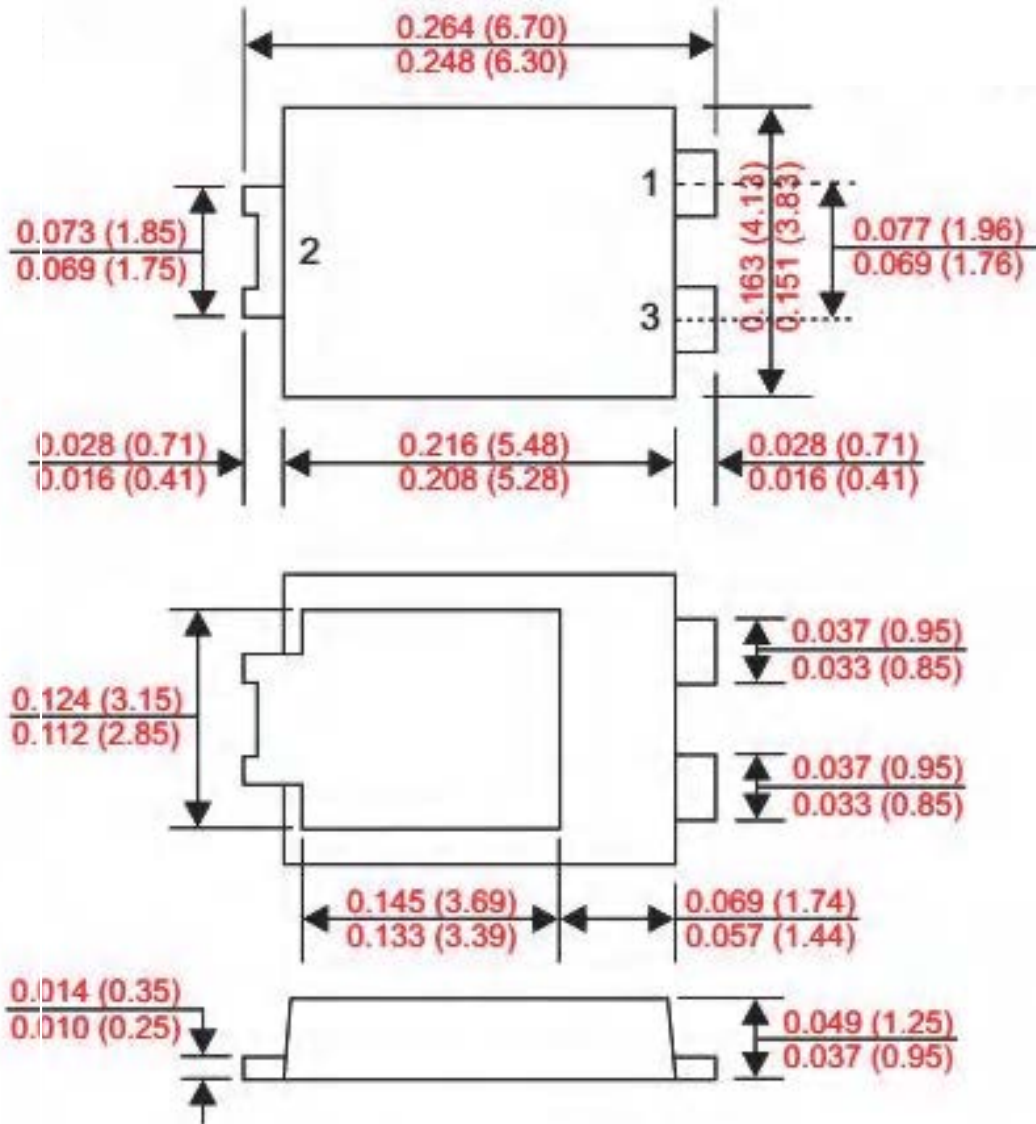


FIG.4-TYPICAL JUNCTION CAPACITANCE





TO-277 Package Outline Dimensions



Dimensions in inches and (millimeters)



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