



Features

- Metal silicon junction, majority carrier
- conduction For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability



SMB



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
BR810_R1_00001	SMB	SS810	3000

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	Limit	Units
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current	8.0	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 8.0A	0.85	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C 0.02 Ta=125°C 2	mA mA
Typical Junction Capacitance	350	pF
Typical Thermal Resistance R _{JA}	55	°C/W
Operating Temperature Range T _J	-55 to +150	°C
Storage Temperature Range T _{STG}	-55 to +150	°C

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

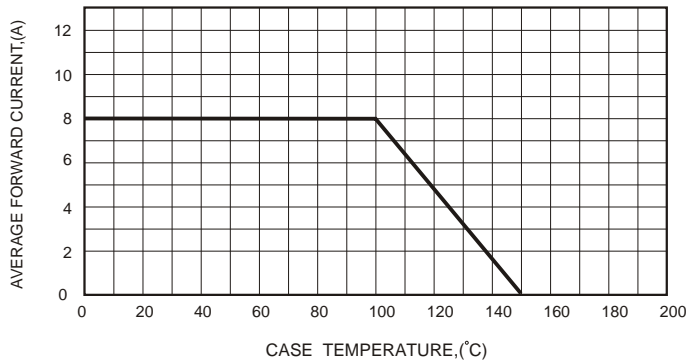


FIG.2-TYPICAL FORWARD CHARACTERISTICS

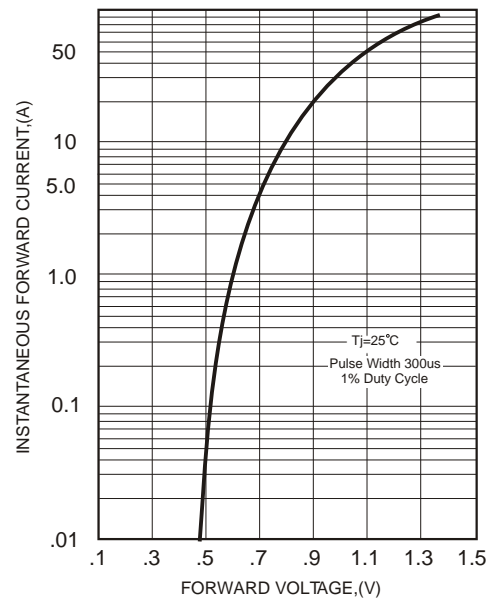


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

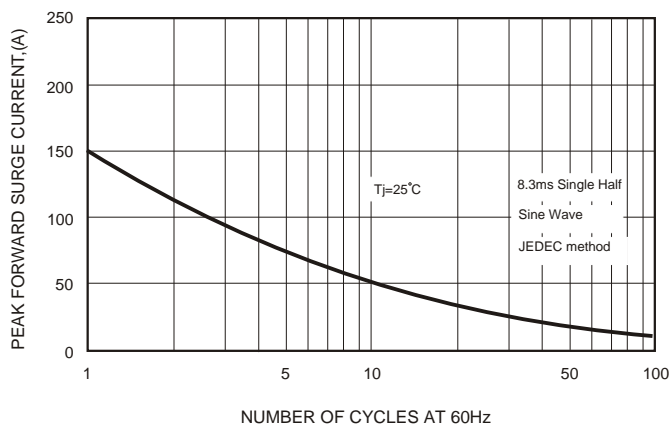


FIG.4-TYPICAL JUNCTION CAPACITANCE

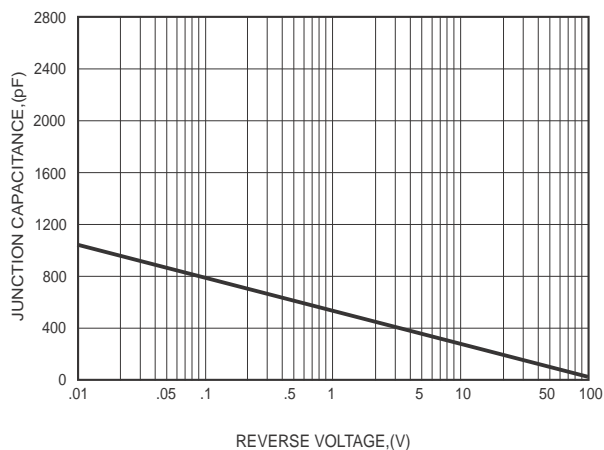
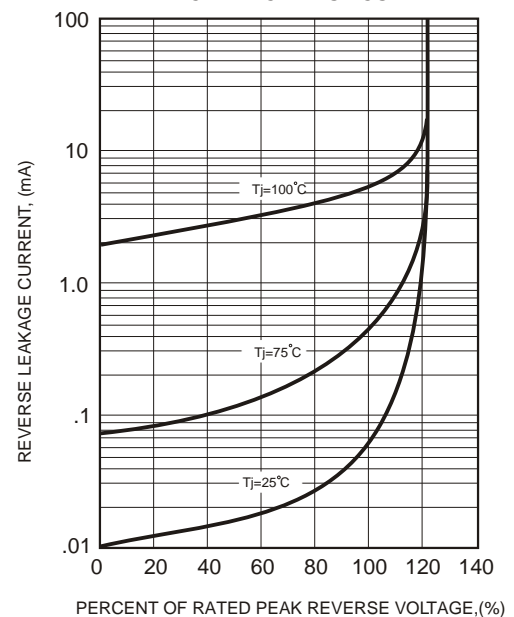


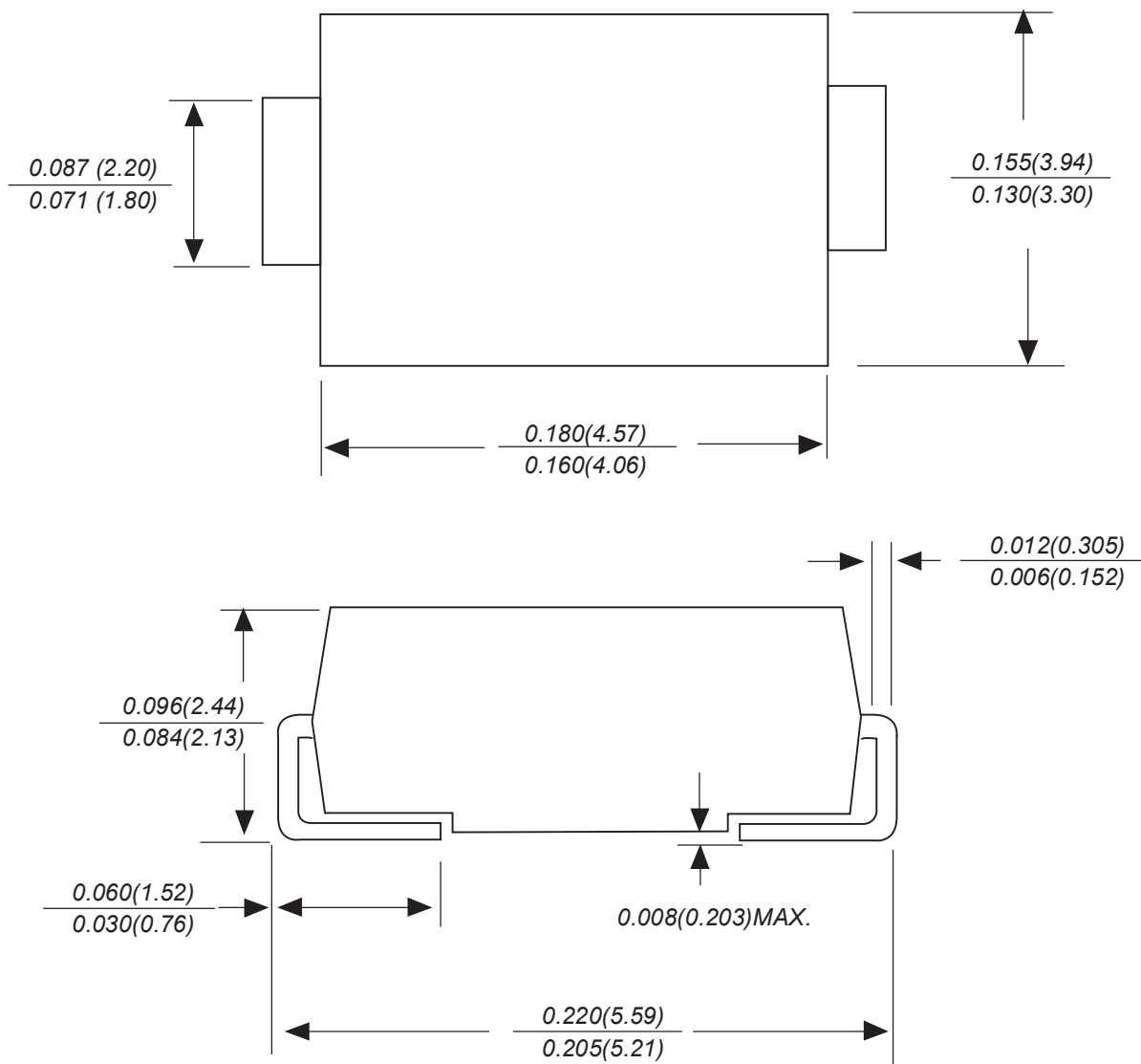
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

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Dimensions in inches and (millimeters)



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