



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)
SS84-SS820	SMB	SS8x	3000

x: From 4-20



Maxmim 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	SS84	SS86	SS810	SS815	SS820	Units
Maximum Recurrent Peak Reverse Voltage	40	60	100	150	200	V
Maximum RMS Voltage	28	42	70	105	140	V
Maximum DC Blocking Voltage	40	60	100	150	200	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	0.55	0.7	0.85	0.92		V
Maximum DC Reverse Current Ta=25°C	0.1		0.02			mA
at Rated DC Blocking Voltage Ta=125°C	5		2			mA
Typical Junction Capacitance	350					pF
Typical Thermal Resistance R JA	55					°C/W
Operating Temperature Range Tj	- 55 to +150 -					°C
Storage Temperature Range Tstg	- 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

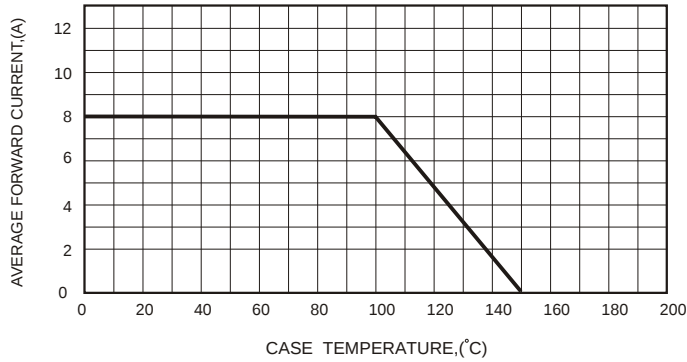


FIG.2-TYPICAL FORWARD CHARACTERISTICS

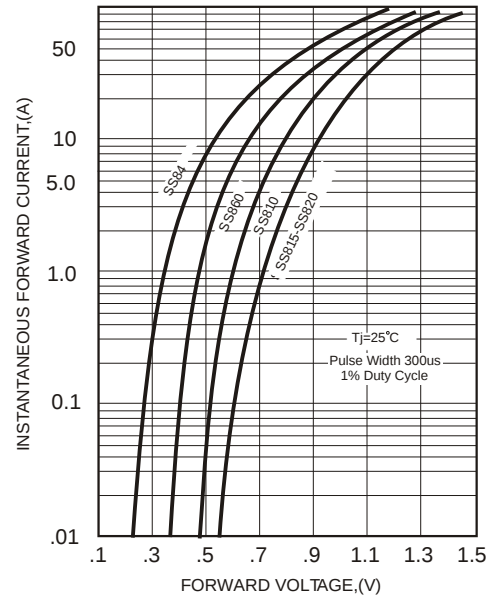


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

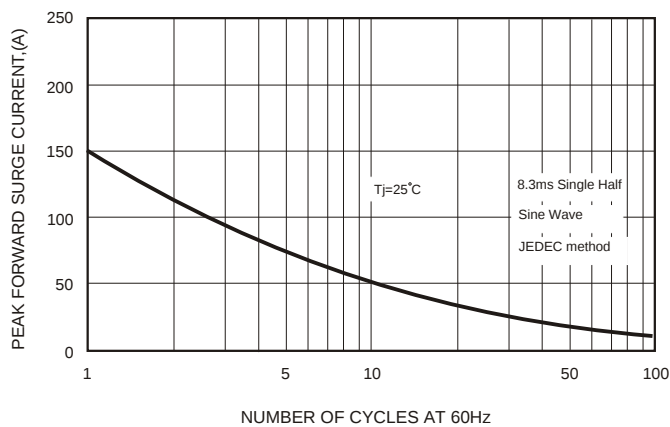


FIG.4-TYPICAL JUNCTION CAPACITANCE

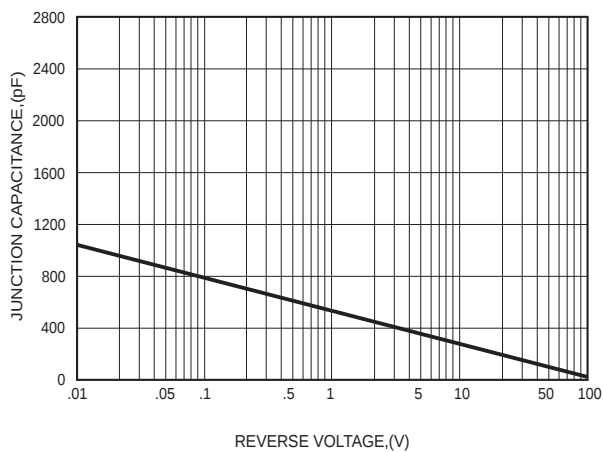
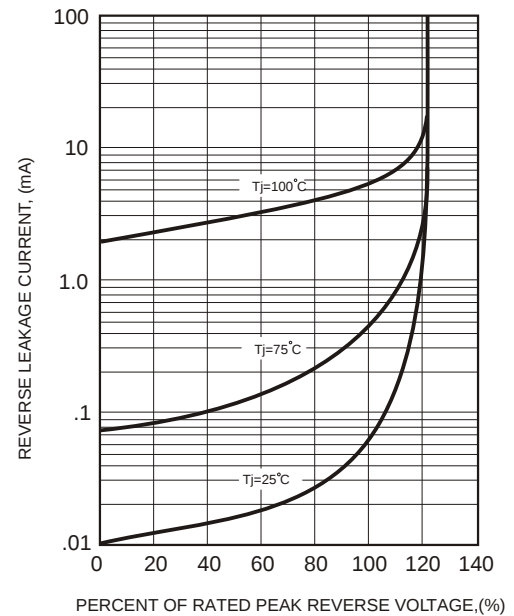


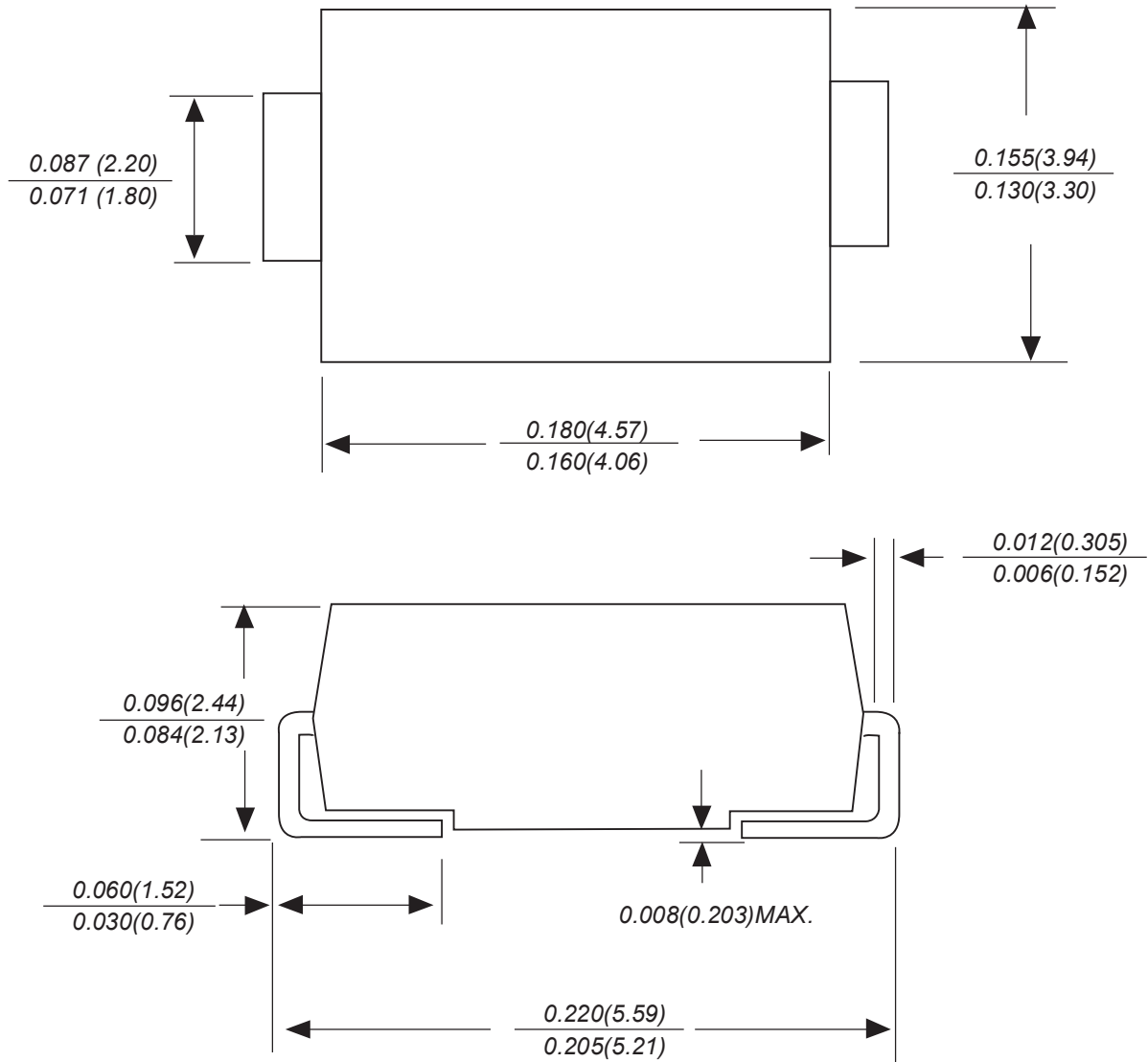
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

SMB



Dimensions in inches and (millimeters)



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