

Features

- Average Forward Current:I_{F(AV)}=3A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RS3MB-13-F	SMB	RS3M	3000



SMB



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	RS3MB-13-F	Units
Maximum Recurrent Peak Reverse Voltage	1000	V
Maximum RMS Voltage	700	V
Maximum DC Blocking Voltage	1000	
Maximum Average Forward Rectified Current At T _L =75℃	3.0	А
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50	А
Maximum Instantaneous Forward Voltage at 3.0A	1.3	V
Maximum DC Reverse Current Ta=25°C	5.0	μА
at Rated DC Blocking Voltage Ta=125°C	50	μА
Typical Junction Capacitance (Note2)	15	pF
Maximum reverse recovery time (Note 1)	500	ns
Typical Thermal Resistance RqJL (Note 3)	88	°C/W
Operating and Storage Temperature Range Тл, Тsтс	-65 —+150	°C

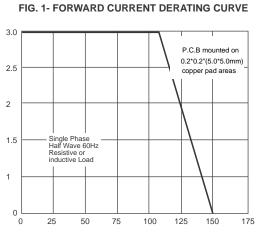
Notes:

- 1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



Typical Characteristics

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES 2 1.5



LEAD TEMPERATURE,° C



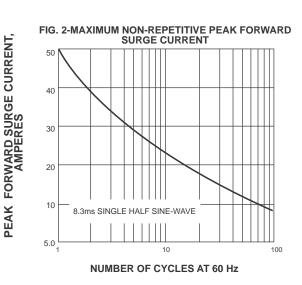


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS INSTANTANEOUS FORWARD CURRENT, AMPERES 20 10 TJ=25℃ PULSE WIDTH=300 μs 2%DUTY CYCLE 0.01 0.6 0.8 1.0 1.2 1.4 1.5



INSTANTANEOUS REVERSE CURRENT, MICROAMPERES 1,000 100 10

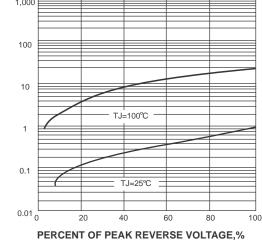
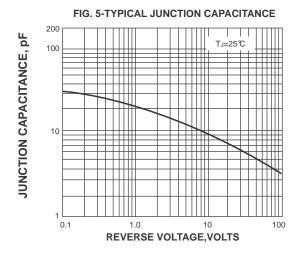
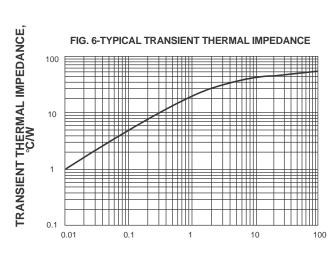


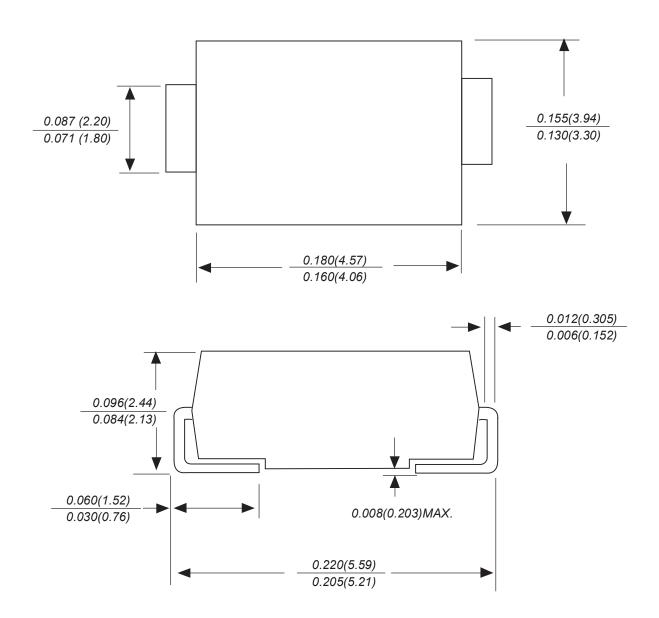
FIG. 4-TYPICAL REVERSE CHARACTERISTICS







SMB Package Outline Dimensions



Dimensions in inches and (millimeters)



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