



Features

- Average Forward Current:IF(AV)=10A
- Polarity:Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS10100B	SMB	SS10100	3000



SMB



Maximum 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	SS10100B	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)	250	A
Maximum Instantaneous Forward Voltage at 10A	0.85	V
Maximum DC Reverse Current Ta=25°C	1.0	mA
at Rated DC Blocking Voltage Ta=100°C	20.0	mA
Typical Junction Capacitance (Note1)	500	pF
Typical Thermal Resistance R JA (Note 2)	18	°C/W
Operating Temperature Range Tj	-65 — +150	°C
Storage Temperature Range Tstg	-65 — +150	°C

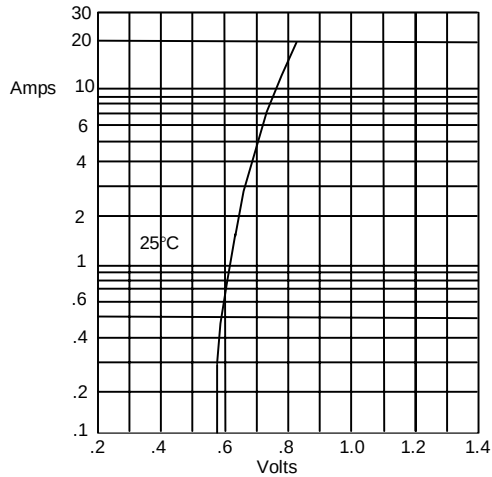
NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas.



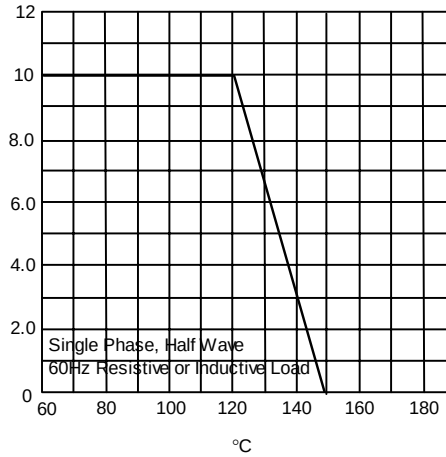
Typical Characteristics

Figure 1
Typical Forward Characteristics



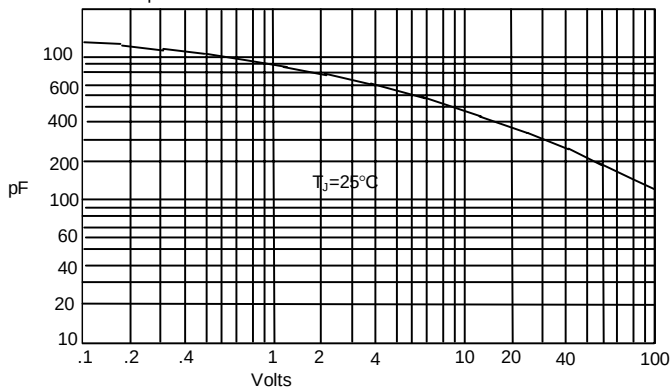
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



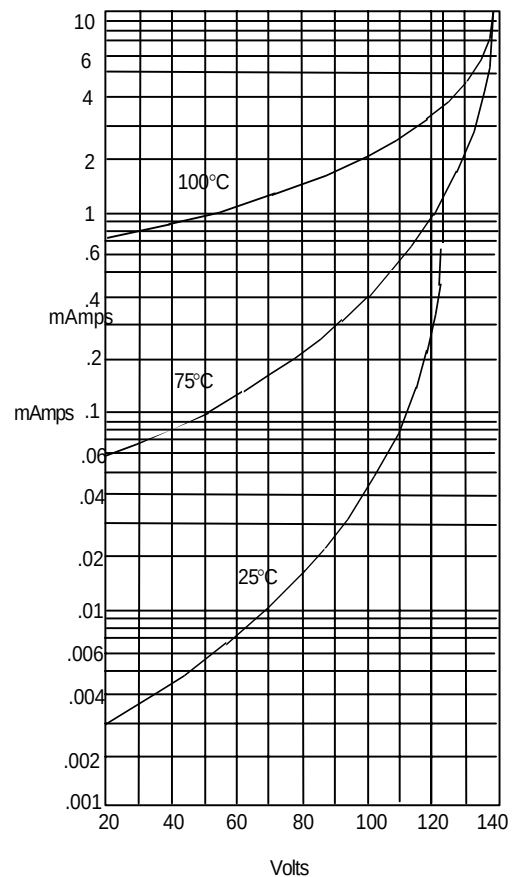
Average Forward Rectified Current - Amperes
versus Lead Temperature - C

Figure 3
Junction Capacitance



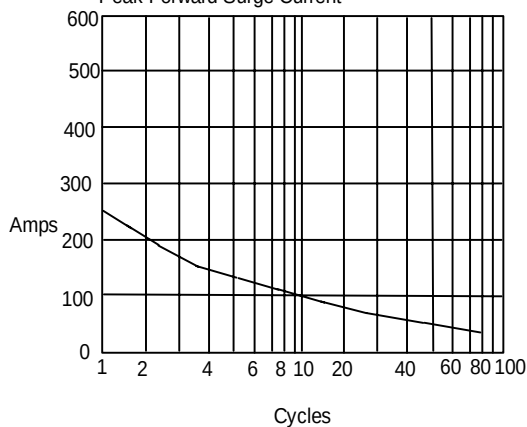
Junction Capacitance - pF versus
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current

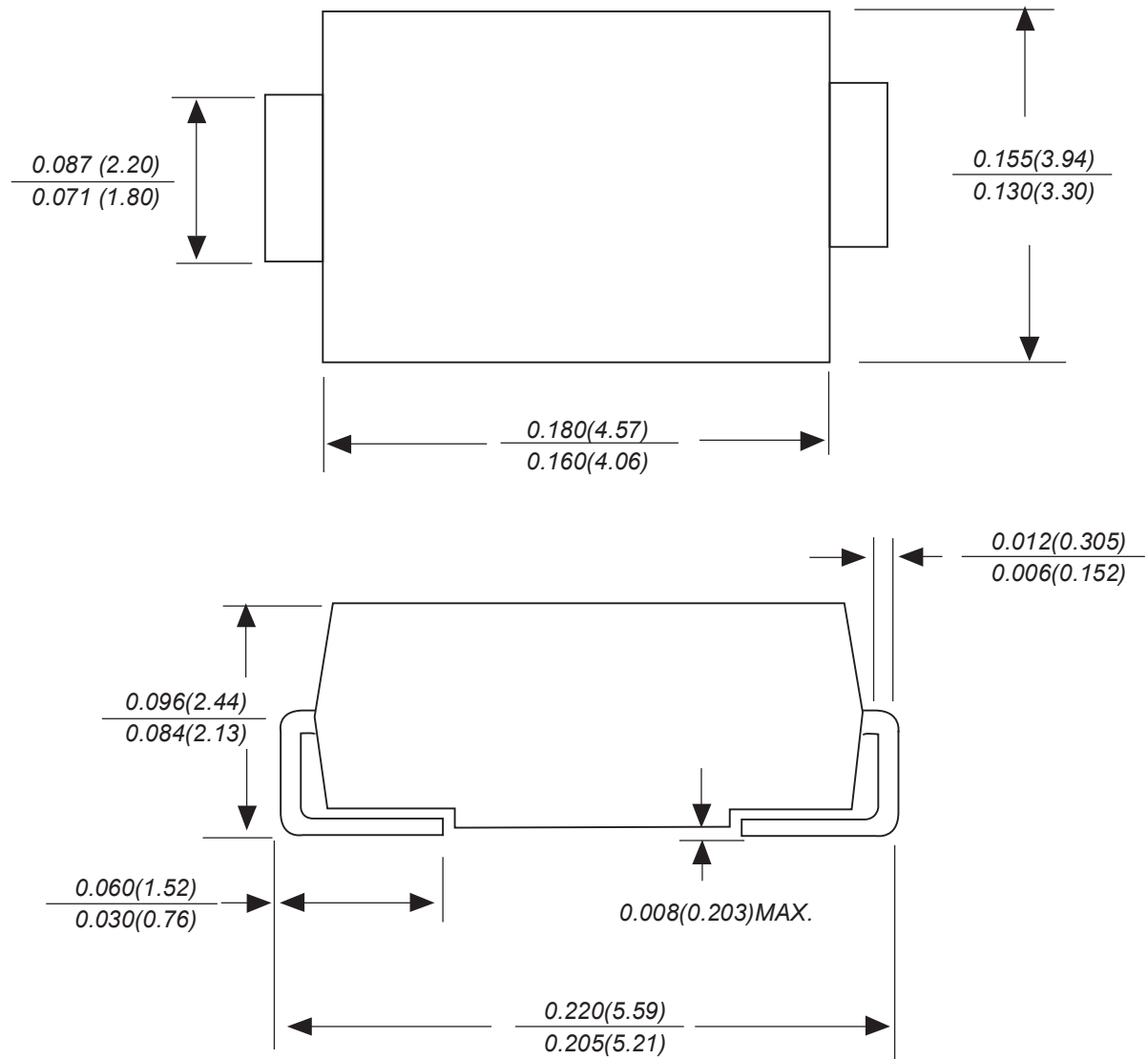


Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



Package Outline Dimensions

SMB



Dimensions in inches and (millimeters)



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