Features

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

SMB

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS102-SS1010	SMB	SS10x	3000

x: From 2-10

Maximum Ratings (Ta=25°C unless otherwise noted)

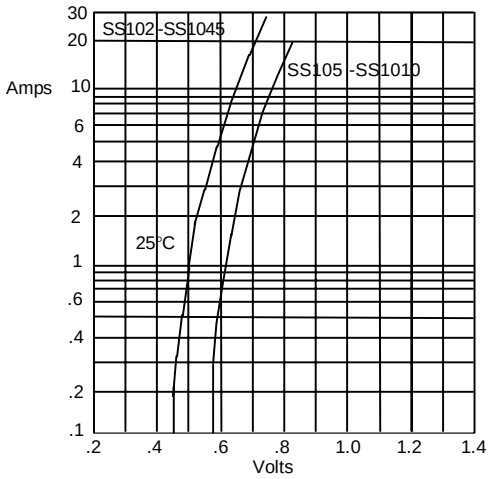
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Type Number	SS102	SS103	SS1035	SS104	SS1045	SS106	SS108	SS1010	Units
Maximum Recurrent Peak Reverse Voltage	20	30	35	40	45	60	80	100	V
Maximum RMS Voltage	14	21	24	28	31	42	56	70	V
Maximum DC Blocking Voltage	20	30	35	40	45	60	80	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 2.0A	0.55			0.65		0.85			V
Maximum DC Reverse Current Ta=25℃	1.0								mA
at Rated DC Blocking Voltage Ta=100℃	20.0								mA
Typical Junction Capacitance (Note1)	500								pF
Typical Thermal Resistance R JA (Note 2)	18								℃/W
Operating Temperature Range T_J	-65 — +150								℃
Storage Temperature Range T_{STG}	-65 — +150								℃

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.

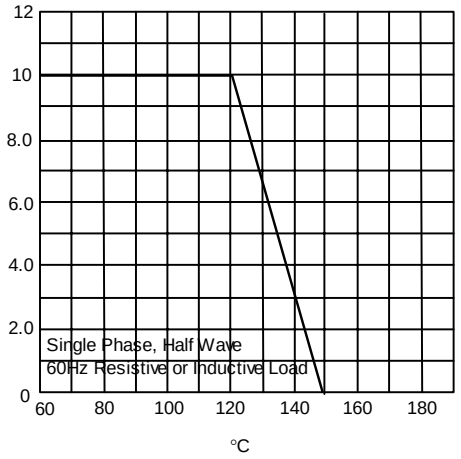
Typical Characteristics

Figure 1
Typical Forward Characteristics



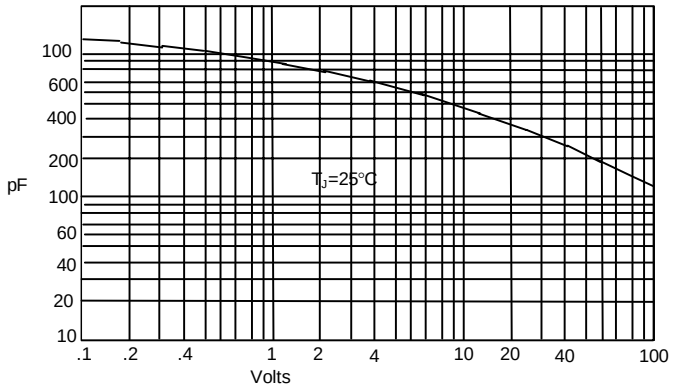
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



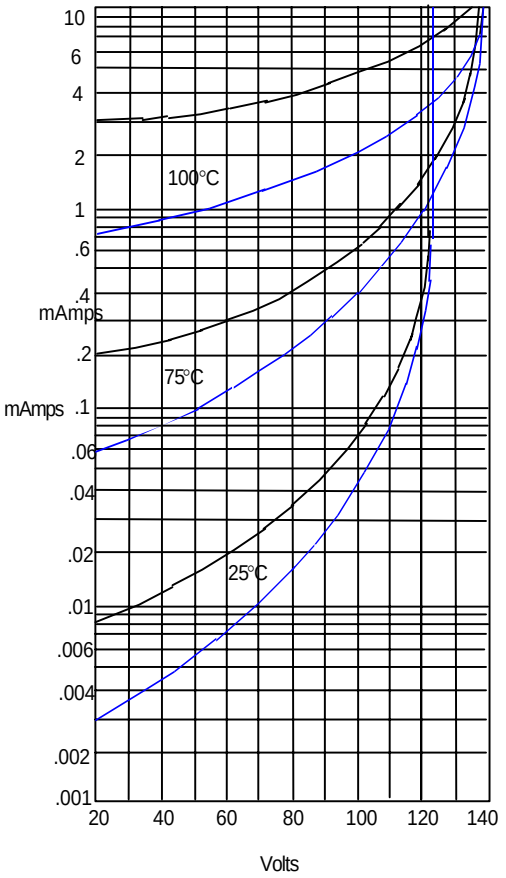
Average Forward Rectified Current - Amperes
versus Lead Temperature - C

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus*
Reverse Voltage - Volts

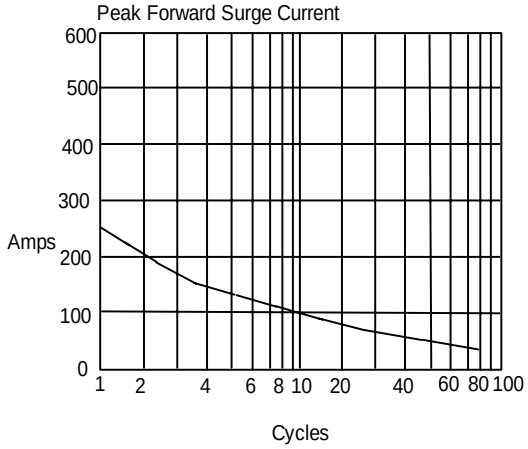
Figure 4
Typical Reverse Characteristics



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

SS102-SS1045
SS105-SS1010

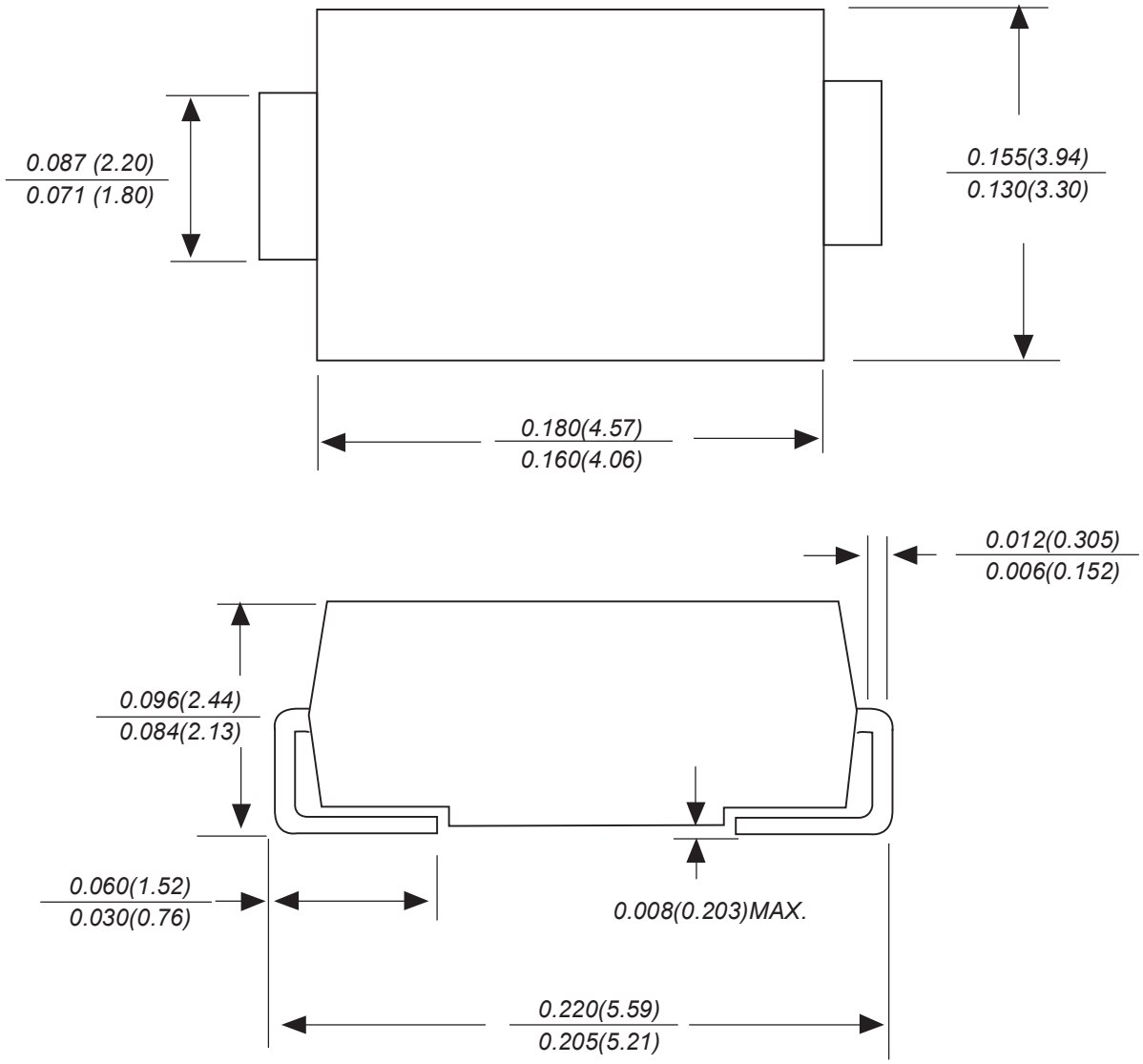
Figure 5
Peak Forward Surge Current



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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