



Features

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop



SMC



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
SS1045-SS10200	SMC	SS10xx	3000

xx: from 45-200

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	SS1045	SS1060	SS10100	SS10105	SS10200	Units
Maximum Recurrent Peak Reverse Voltage	45	60	100	150	200	V
Maximum RMS Voltage	32	42	70	105	140	V
Maximum DC Blocking Voltage	45	60	100	150	200	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)	175					A
Maximum Instantaneous Forward Voltage at 10.0A	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 (Note1)	440					pF
Typical Thermal Resistance R JA (Note 2)	60					°C/W
Operating Temperature Range Tj	-55 to +150					°C
Storage Temperature Range TSTG	-55 to +150					°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

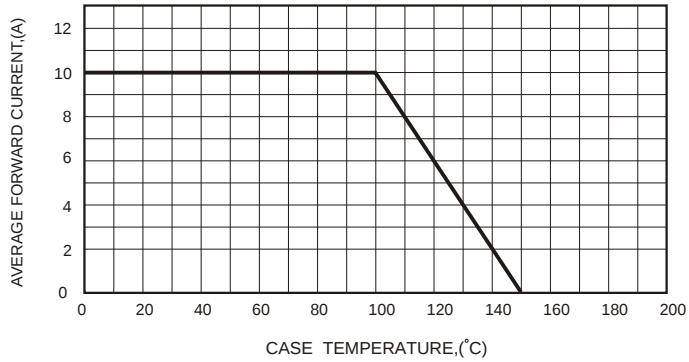


FIG.2-TYPICAL FORWARD CHARACTERISTICS

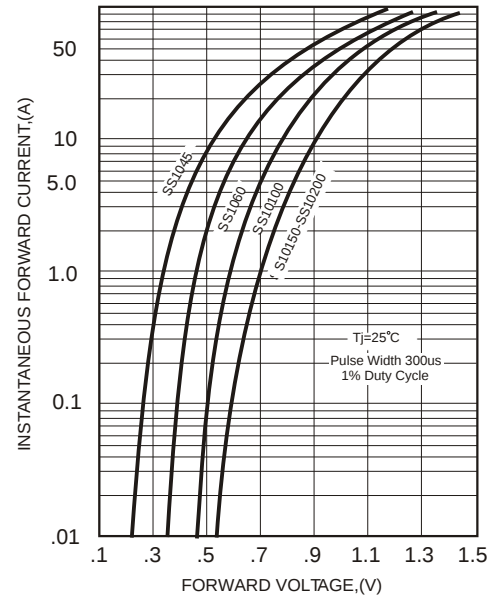


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

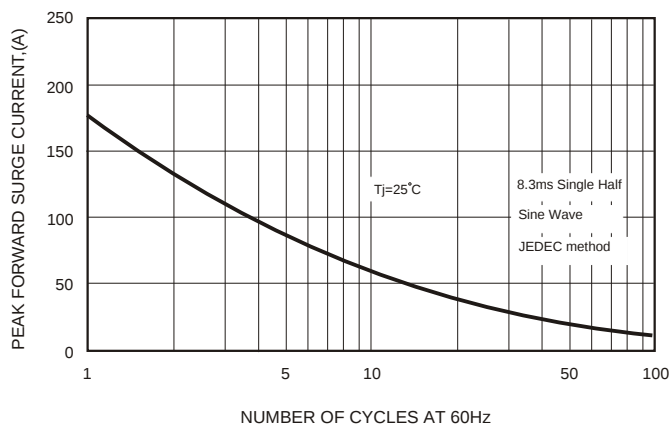


FIG.4-TYPICAL JUNCTION CAPACITANCE

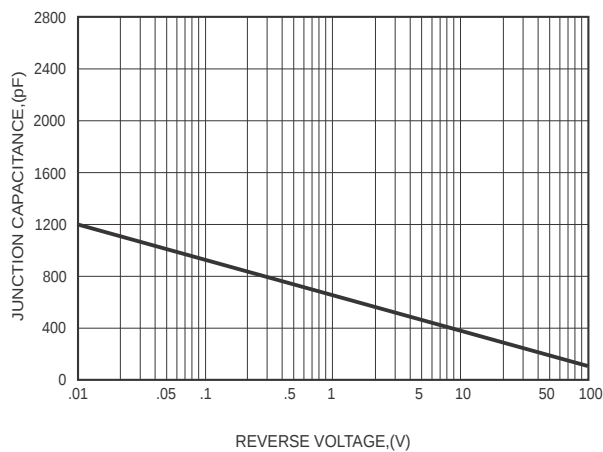
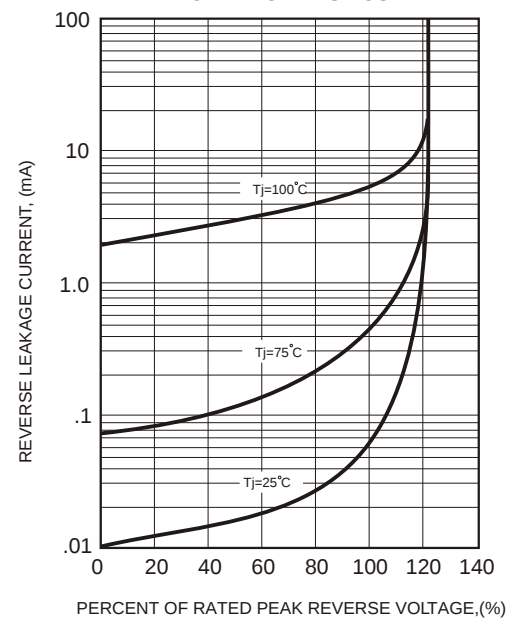


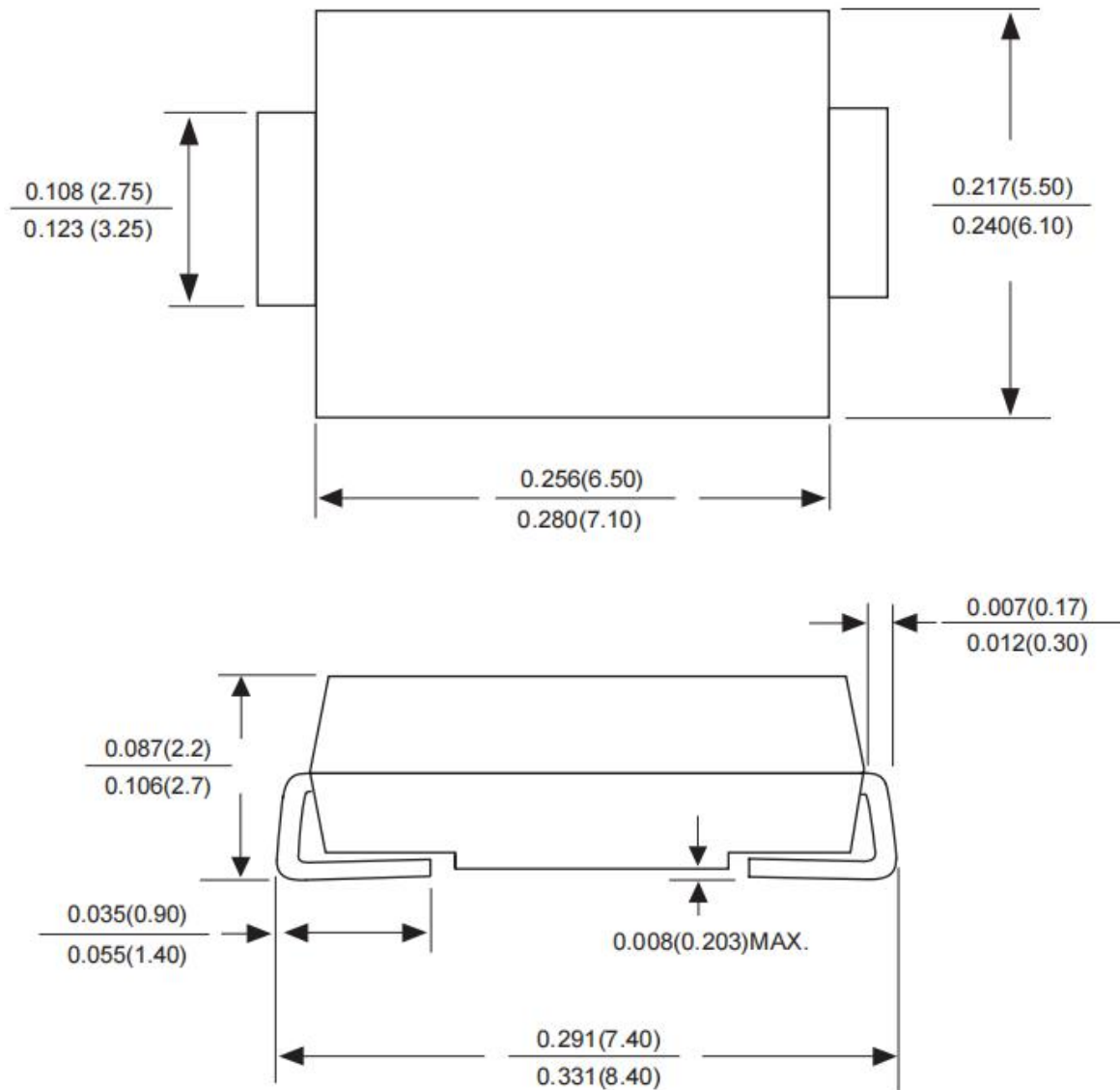
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

SMC



Dimensions in inches and (millimeters)



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