



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)
SK104C- SK1020C	SMC	SS10✱	3000

✱:From 4-20

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	SK104C	SK1045C	SK106C	SK1010C	SK1015C	SK1020C	UNITS
Maximum Recurrent Peak Reverse Voltage	40	45	60	100	150	200	V
Maximum RMS Voltage	28	32	42	70	105	140	V
Maximum DC Blocking Voltage	40	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			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:

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

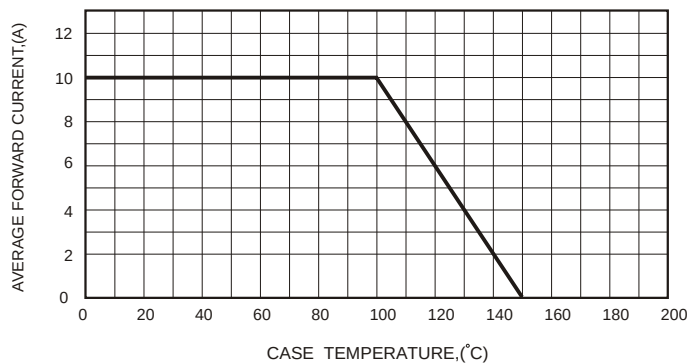


FIG.2-TYPICAL FORWARD CHARACTERISTICS

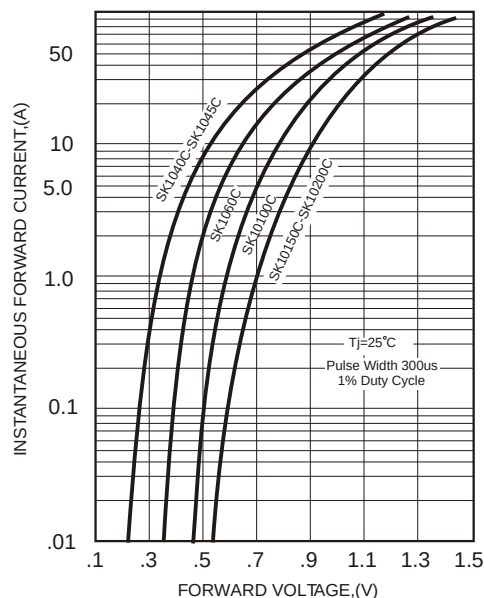


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

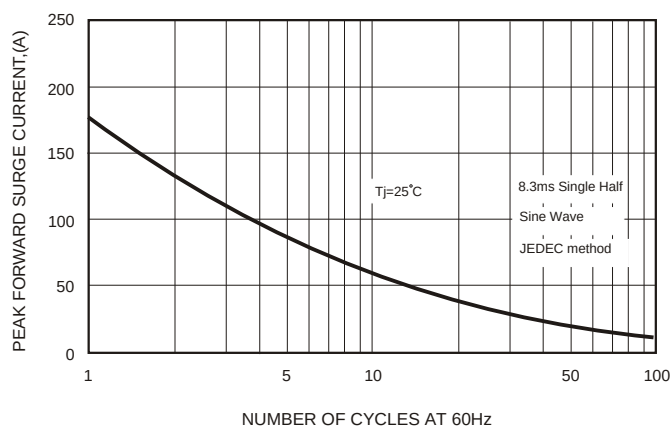


FIG.4-TYPICAL JUNCTION CAPACITANCE

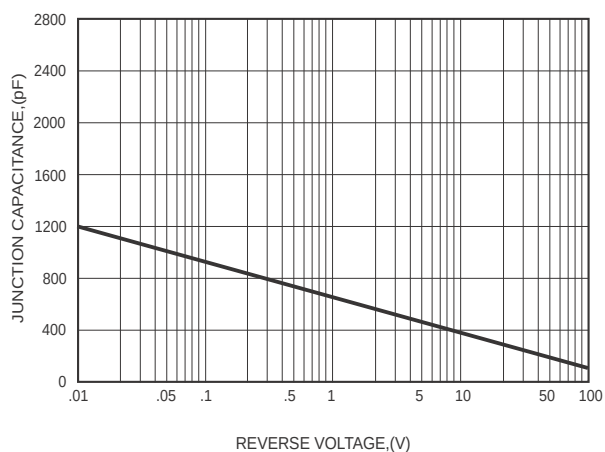
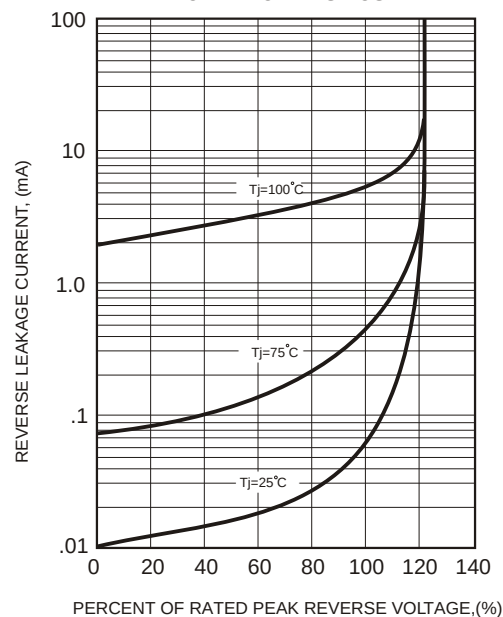


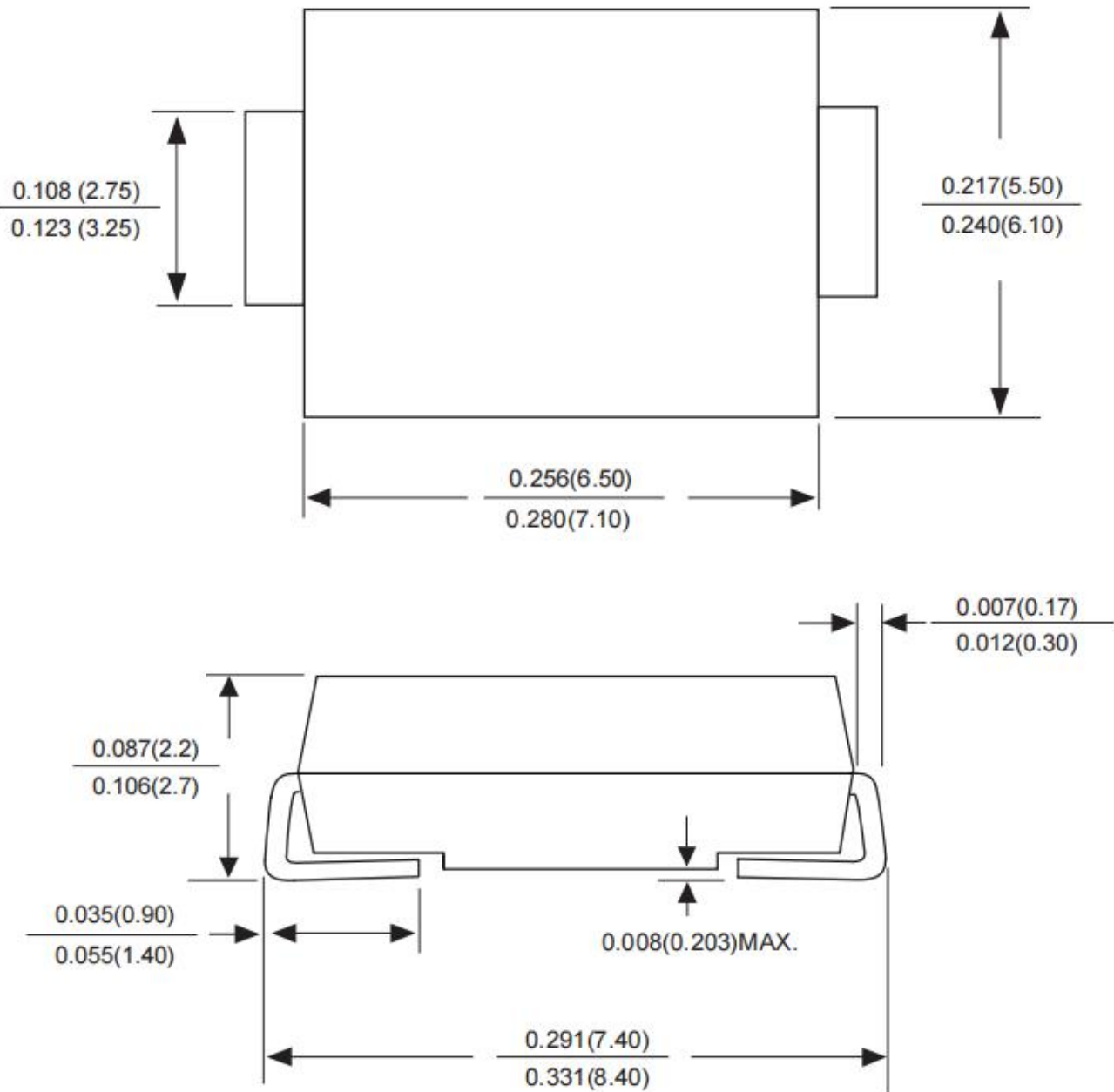
FIG.5 - TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

SMC



Dimensions in inches and (millimeters)



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