



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)
SK1045C- SK1020C	SMC	SS10*	3000

*:From 45-20

Maxmim Ratings (Ta=25 unless otherwise noted)

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

TYPE NUMBER	SK1045C	SK106C	SK1010C	SK1015C	SK1020C	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 at Rated DC Blocking Voltage	0.1 Ta=25°C		0.02			μA
	5 Ta=125°C		2			mA
Typical Junction Capacitance (Note1)	440					pF
Typical Thermal Resistance R _{JA} (Note 2)	60					°C/W
Operating Temperature Range T _J	- 55 to +150 -					°C
Storage Temperature Range T _{STG}	- 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

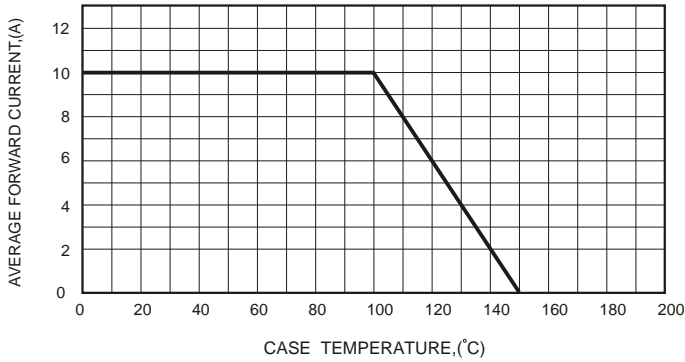


FIG.2-TYPICAL FORWARD CHARACTERISTICS

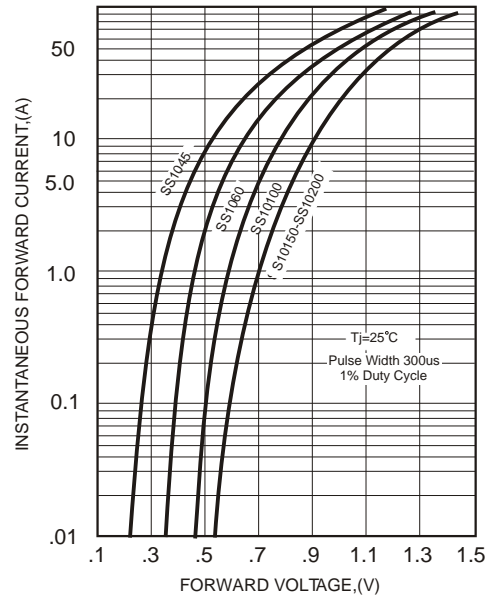


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

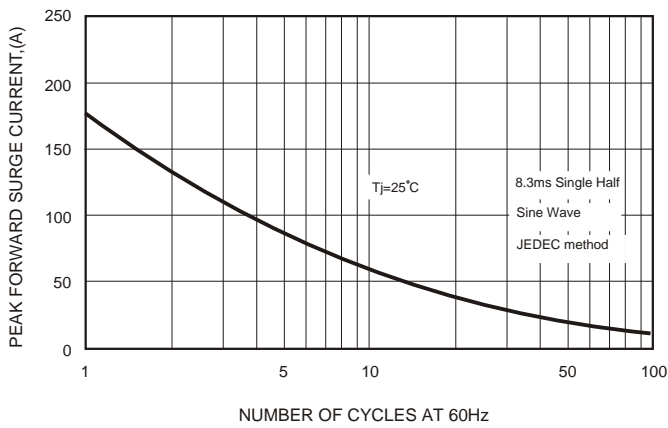


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

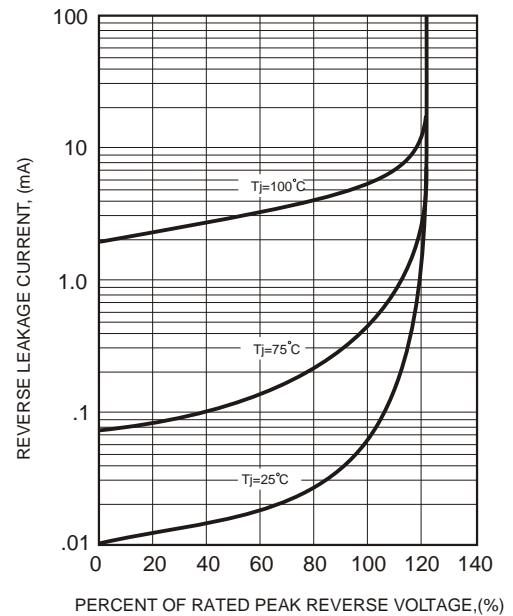
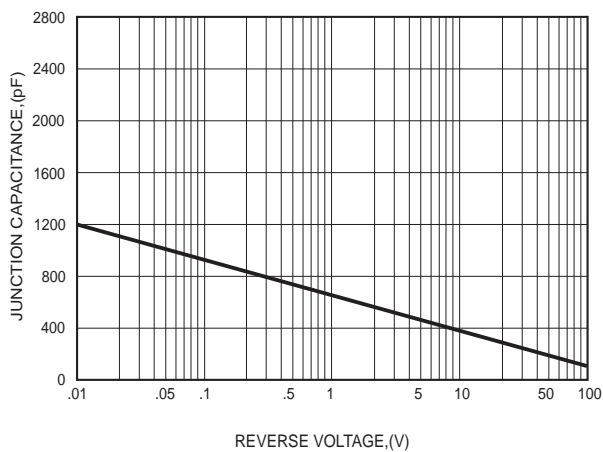
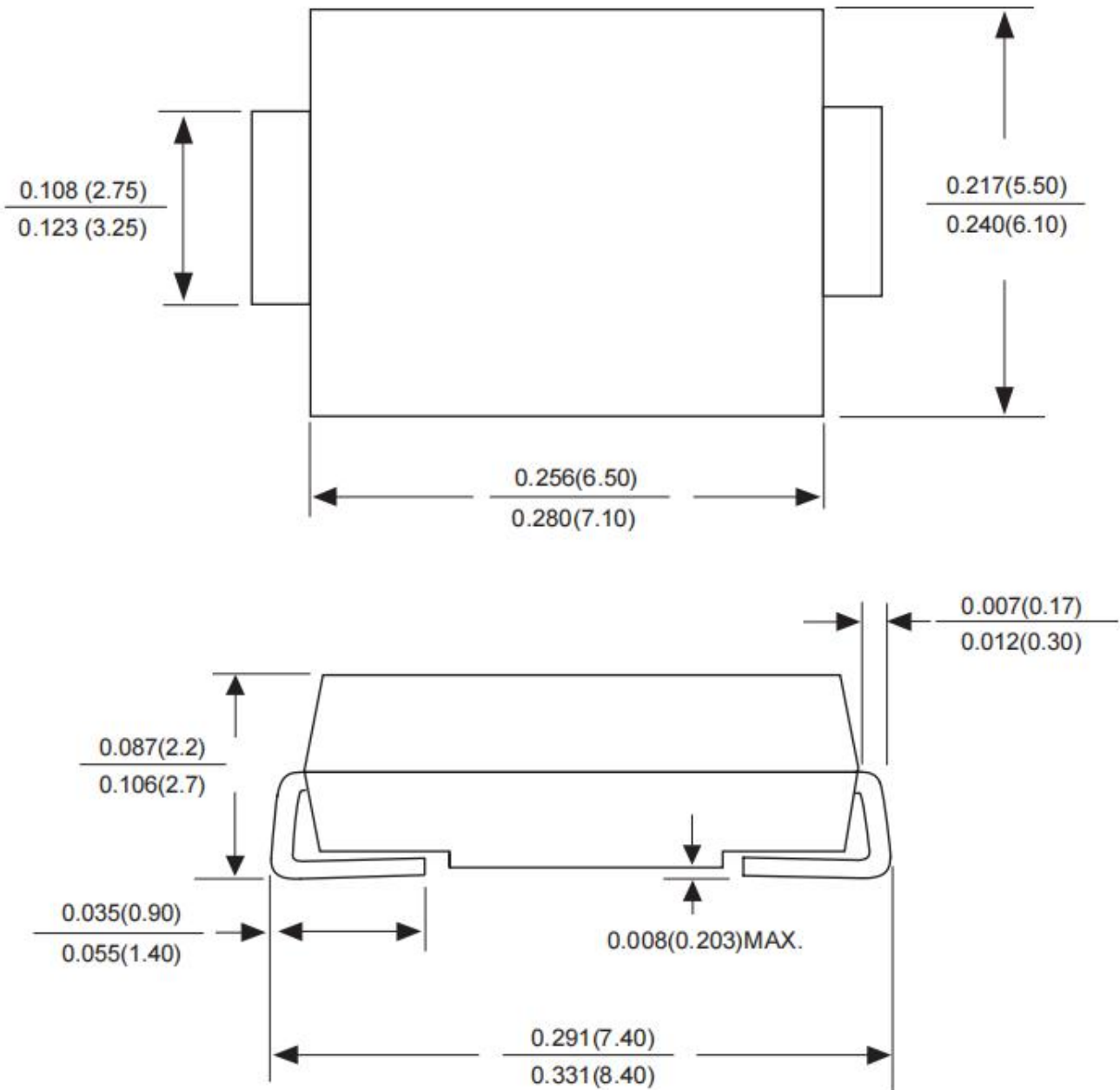


FIG.4-TYPICAL JUNCTION CAPACITANCE





SMC Package Outline Dimensions



Dimensions in inches and (millimeters)



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