

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- SK10200C	SMC	SS10xx	3000





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		SK1045C	SK 10600	SK10100C	SK 1015	05K10200C	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					Α
Peak Forward Surge Current, 8.3 ms single half sine-wave							
superimposed on rated load (JEDEC method)		175					Α
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					
Typical Thermal Resistance R JA (Note 2)		60					
Operating Temperature Range T _J		-55 to +150					
Storage Temperature Range Tsrc		-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

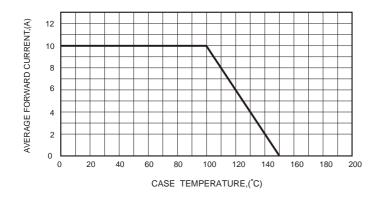


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

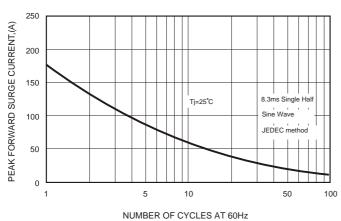


FIG.4-TYPICAL JUNCTION CAPACITANCE

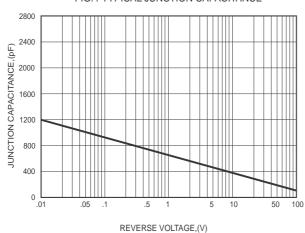


FIG.2-TYPICAL FORWARD

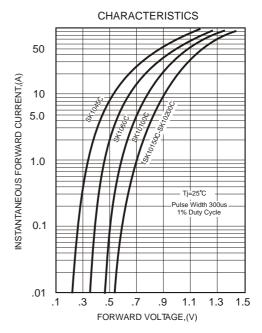
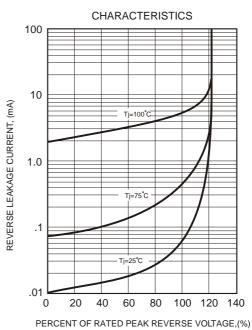
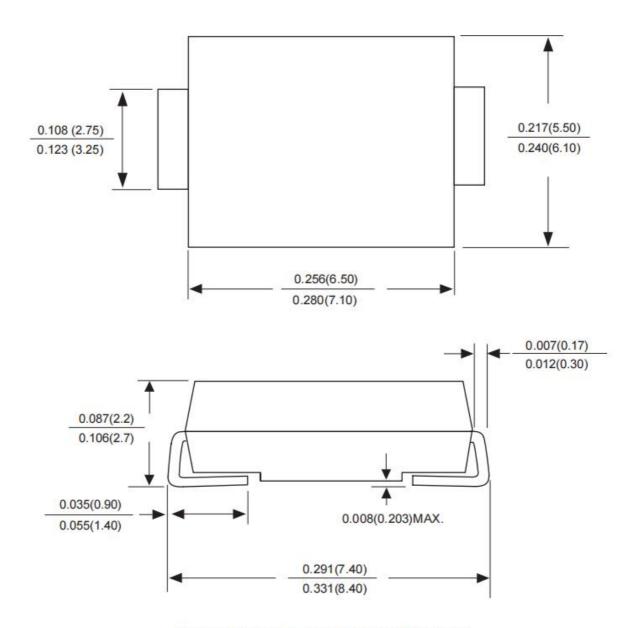


FIG.5 - TYPICAL REVERSE





Package Outline Dimensions SMC



Dimensions in inches and (millimeters)



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