

### **Features**

- Metal silicon junction, majority carrier
- conduction For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability



# **Package Marking and Ordering Information**

Product ID	Pack	Marking	Qty(PCS)
SK82C- SK820C	SMB	SS8x	3000





**SMB** 

# Maximum Ratings (Ta=25 unless otherwise noted)

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

Type Number		SK84	SK86	SK810	SK815	SK820	Units
Maximum Recurrent Peak Reverse Voltage		40	60	100	150	200	V
Maximum RMS Voltage		28	42	70	105	140	V
Maximum DC Blocking Voltage		40	60	100	150	200	V
Maximum Average Forward Rectified Current		8.0					
Peak Forward Surge Current, 8.3 ms single							
superimposed on rated load (JEDEC method)		150					
Maximum Instantaneous Forward Voltage at 8.0A		0.55	0.7	0.85	0.	92	V
Maximum DC Reverse Current	Ta=25°C	0	0.1	0.02			μΑ
at Rated DC Blocking Voltage	Ta=125°C	5		2			mA
Typical Junction Capacitance	350						
Typical Thermal Resistance R JA		55					
Operating Temperature Range T <sub>J</sub>		55 to +150 -					
Storage Temperature Range Tstg		55 to +150 -					

## 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

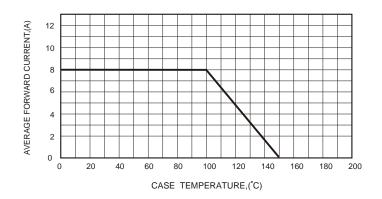


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

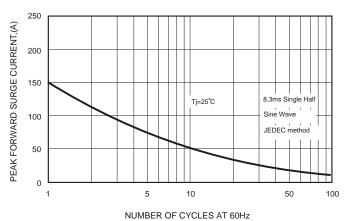


FIG.4-TYPICAL JUNCTION CAPACITANCE

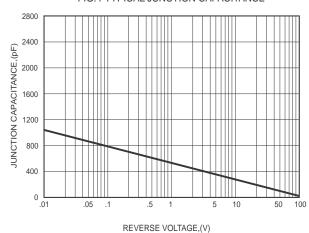


FIG.2-TYPICAL FORWARD

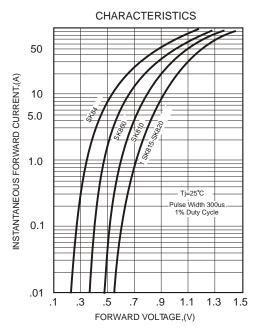
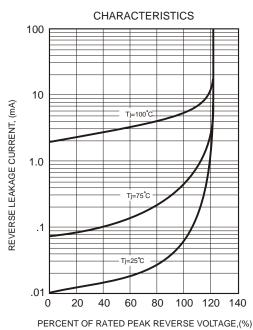
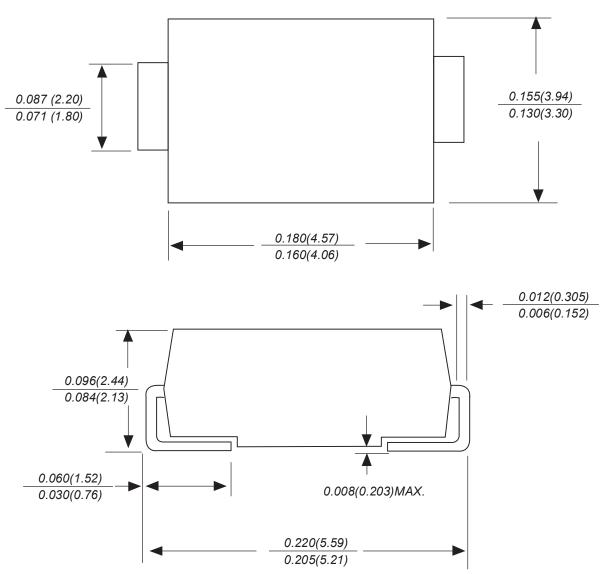


FIG.5 - TYPICAL REVERSE





# Package Outline Dimensions SMB



Dimensions in inches and (millimeters)



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