

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	SMC	SS8xC	3000		





SMC

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	SK82C	SK84C	SK86C	SK88C	SK810C	SK812C	SK815C	SK820C	Units
Maximum Recurrent Peak Reverse Voltage		40	60	80	100	120	150	200	V
Maximum RMS Voltage		28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage		40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current		8.0							
Peak Forward Surge Current, 8.3 ms single half sine-wave	:								
superimposed on rated load (JEDEC method)		150							
Maximum Instantaneous Forward Voltage at 8.0A	0.45	0.55	0	.7	0.85				V
Maximum DC Reverse Current Ta=25°C		0.1							
at Rated DC Blocking Voltage Ta=125°C		50							
Typical Junction Capacitance		600 400							pF
Typical Thermal Resistance R JA		35							
Operating Temperature Range T _J		55 to +150 -							
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 Forward Current Derating Curve

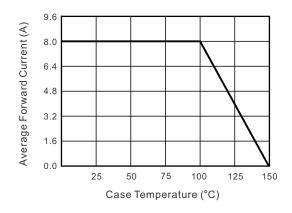


Fig.2 Typical Reverse Characteristics

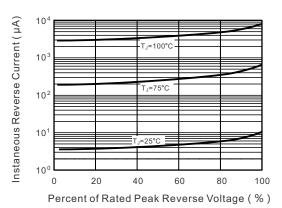


Fig.3 Typical Forward Characteristic

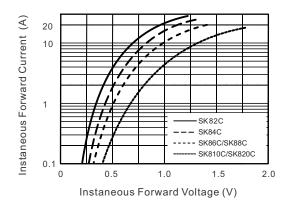


Fig.4 Typical Junction Capacitance

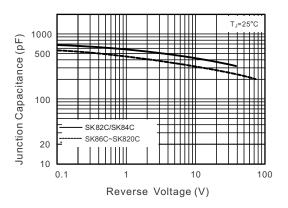


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

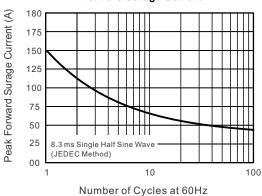
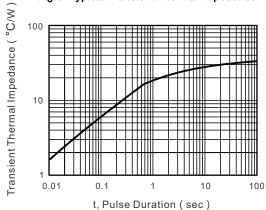
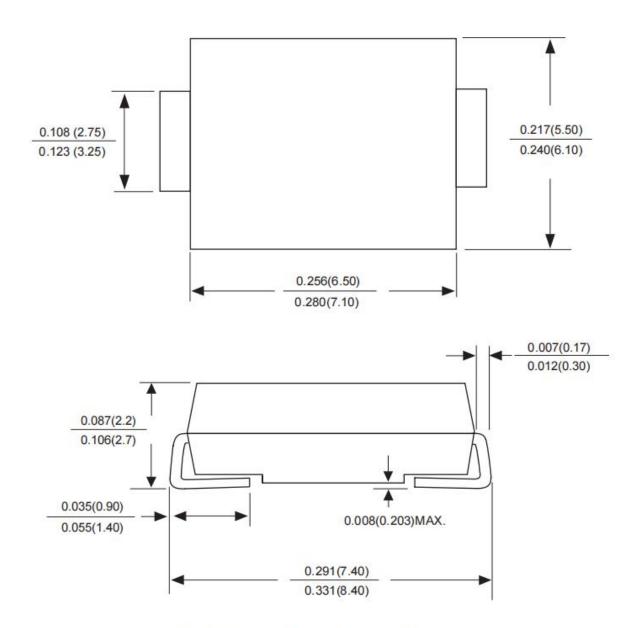


Fig.6- Typical Transient Thermal Impedance





Package Outline Dimensions SMC



Dimensions in inches and (millimeters)



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