SK82C - SK86C



8.0 AMPS. Surface Mount Schottky Barrier Rectifiers





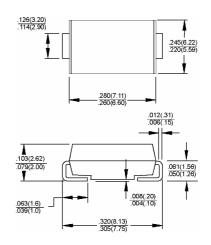
Features

- ♦ For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- ♦ Easy pick and place
- ♦ High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ♦ Epitaxial construction
- High temperature soldering:
 260°C / 10 seconds at terminals

Mechanical Data

- ♦ Case: Molded plastic♦ Terminals: Solder plated
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.21 gram

SMC/DO-214AB



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	SK 82C	SK 83C	SK 84C	SK 85C	SK 86C	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	I _(AV)	8.0					Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150					Α
Maximum Instantaneous Forward Voltage (Note 1) @8.0A	V _F	0.55			0.75		V
Maximum DC Reverse Current @ $T_A = 25$ °C at Rated DC Blocking Voltage @ $T_A = 100$ °C	1-	0.5					mA
	I _R	15			10		mA
Typical Thermal Resistance (Note 2)	R _{θJA}	20					°C /W
Operating Temperature Range	TJ	-55 to +125		-55 to +150		°C	
Storage Temperature Range	Tstg	-55 to +150					°C

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Measured on P.C.Board with 0.6 x 0.6" (16.0 x 16.0mm) Copper Pad Areas.



RATINGS AND CHARACTERISTIC CURVES (SK82C THRU SK86C)

