

SK53C THRU SK56C

5.0 AMPS. Surface Mount Schottky Barrier Rectifiers



Voltage Range 30 to 60 Volts Current 5.0 Amperes

Features

- ♦ For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- ♦ 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

.129(3.27) .118(3.0) .280(7.11) .260(6.60) .012(.31) .006(.15) .006(.15) .008(.20) .004(.10) .320(8.13) .305(7.75)

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	SK53C	SK54C	SK56C	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	40	60	V
Maximum RMS Voltage	V_{RMS}	21	28	42	V
Maximum DC Blocking Voltage	V_{DC}	30	40	60	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	I _(AV)	5.0			А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100		А	
Maximum Instantaneous Forward Voltage (Note 1) @ 5.0A	V _F	0.55		0.75	V
Maximum DC Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 100^{\circ}C$	I _R	0.5			mA
		2	:0	10	mA
Typical Thermal Resistance (Note 2)	$R\hspace{.01in}_{ heta_{JC}}$	17 55		C /W	
Operating Temperature Range	TJ	-55 to	+125	-55 to +150	C
Storage Temperature Range	Тѕтс	-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 x 16mm) Copper Pad Areas.



