







Features

- UL Recognized File # E-326243
- For surface mounted application
- Metal to sillicon 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
- Green compound with suffix "G" on packing code & prefix "G" on datecode
- Quailfied as per AEC-Q101

Mechanical Data

Case: Molded plastic

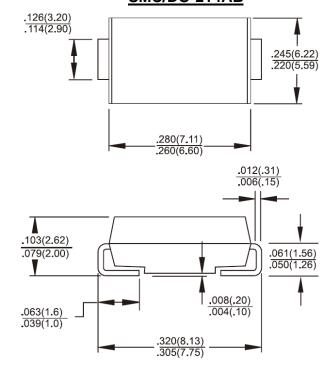
Terminals: Pure tin plated, lead free

Polarity: Indicated by cathode band

Packaging: 16mm tape per EIA Std RS-481

Weight: 0.21 gram \diamond

SK52C - SK520C 5.0AMPS Surface Mount Schottky Barrier Rectifiers SMC/DO-214AB



Dimensions in inches and (millimeters)

Marking Diagram

SK5XC = Specific Device Code = Green Compound

G Υ = Year

M = Work Month

Maximum Ratings and Electrical Characteristics

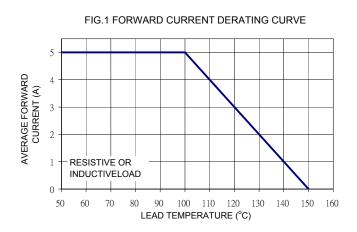
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

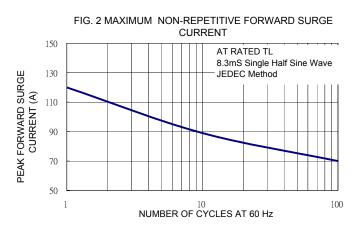
Type Number	Symbol	SK 52C	SK 53C	SK 54C	SK 55C	SK 56C	SK 59C	SK 510C	SK 515C	SK 520C	Unit			
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	200	V			
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	140	V			
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	200	V			
Maximum Average Forward Rectified Current	I _{F(AV)}	5								Α				
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120								Α				
Maximum Instantaneous Forward Voltage (Note 1) @ 5 A	V _F	0.55 0.75				0.	85	0.95		V				
Maximum Reverse Current @ Rated VR T_A =25 $^{\circ}$ C T_A =100 $^{\circ}$ C T_A =125 $^{\circ}$ C		0.5 0.3												
	I_R		20			10		-						
				-				į	5					
Typical Thermal Resistance	$R_{ heta j L} \ R_{ heta j A}$	17 50									°C/W			
Operating Temperature Range	T _J	- 55 to + 150									οС			
Storage Temperature Range	T _{STG}	- 55 to + 150									οС			

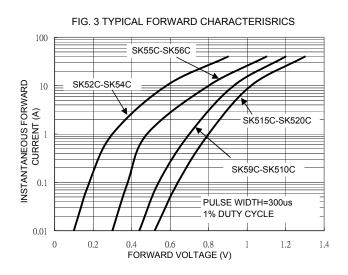
Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

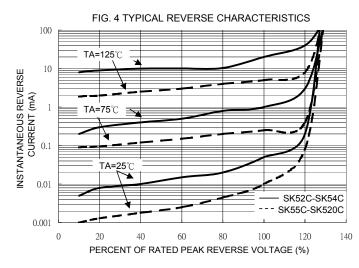


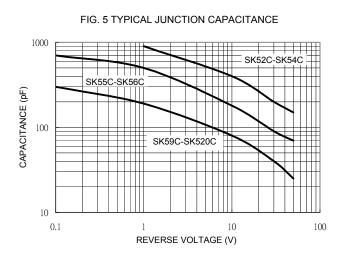
RATINGS AND CHARACTERISTIC CURVES (SK52C THRU SK520C)

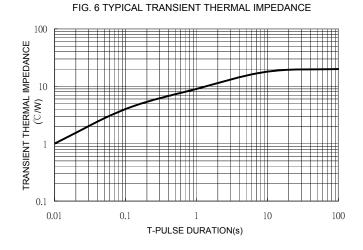












Version:H11