







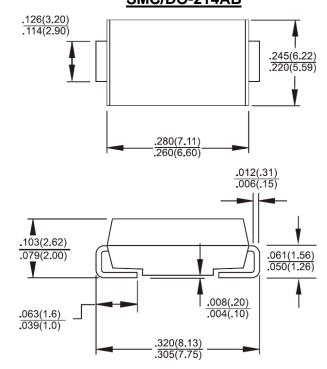
Features

- For surface mounted application
- ♦ Metal to sillicon rectifier, majority carrier conduction
- ♦ Low forward voltage drop
- ♦ High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- → 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

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



Dimensions in inches and (millimeters)

Marking Diagram

SK5XC = Specific Device Code

G = Green Compound Y = Year

M = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

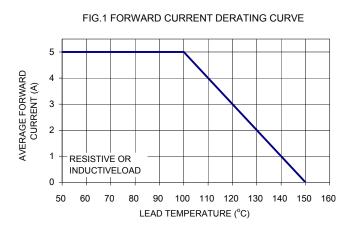
For capacitive load, derate current by 20%

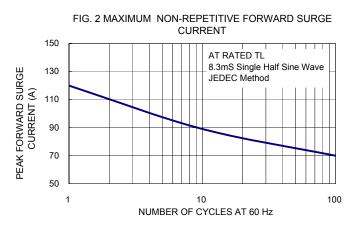
Type Number	Symbol	SK 52C	SK 53C	SK 54C	SK 55C	SK 56C	SK 59C	SK 510C	SK 515C	SK 520C	Unit				
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	200	V				
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	63	70	105	140	V				
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	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 $^{\circ}C$		0.5					0.3								
T _A =100 °C	I_R	20			10		-				mA				
T _A =125 ℃				-				į	5						
Typical Thermal Resistance	$R_{ heta j A}$	17 50									°C/W				
Operating Temperature Range	T _J	- 55 to + 150									οС				
Storage Temperature Range	T _{STG}	- 55 to + 150								οС					

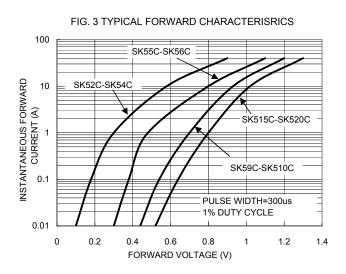
Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

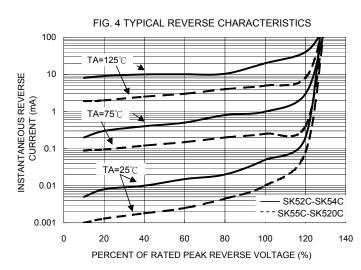


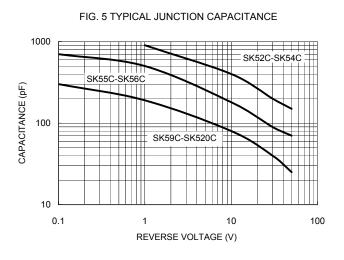
RATINGS AND CHARACTERISTIC CURVES (SK52C THRU SK520C)

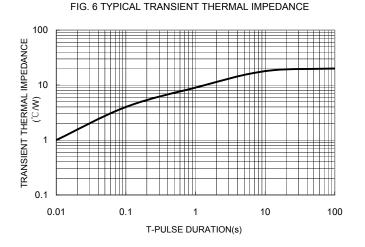












Version:I11