



Product data sheet

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SK52C THRU SK510C HF 🧟

Semiconductor Compiance

VOLTAGE RANGE

20 to 100 Volts CURRENT

5.0 Ampere





SMC

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.21 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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P/N(MARK)		SK52C	SK53C	SK54C	SK55C	SK56C	SK58C	SK59C	SK510C	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	80	90	100	V
Maximum RMS Voltage		14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current										
at T⊾=90 ℃			5.0						А	
Peak Forward Surge Current, 8.3 ms single half sine-wave										
superimposed on rated load (JEDEC method)			150					A		
Maximum Instantaneous Forward Voltage at 5.0A			0.55 0.70		0.85		V			
Maximum DC Reverse Current	Ta=25°C	0.1 0.02			mA					
at Rated DC Blocking Voltage	Ta=100°C			5				2		mA
Typical Junction Capacitance (Note1)			300						pF	
Typical Thermal Resistance R JL (Note 2)			10						°C/W	
Operating Temperature Range TJ			-65 -+ + 150					°C		
Storage Temperature Range Tstg			-65-+150					°C		

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Lead.

* Built-in strain relief * Low forward voltage drop

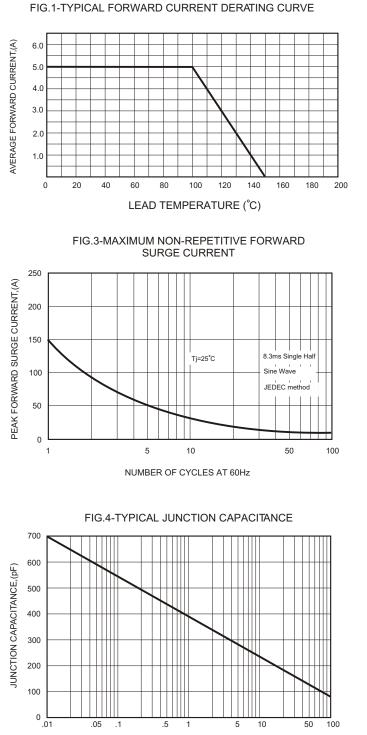


- * Polarity: Color band denotes cathode end



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RATING AND CHARACTERISTIC CURVES (SK52C THRU SK510C)



REVERSE VOLTAGE,(V)

FIG.2-TYPICAL FORWARD

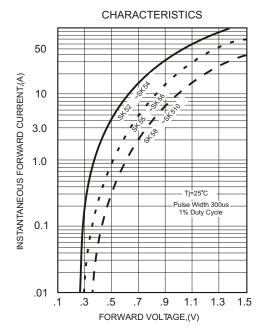
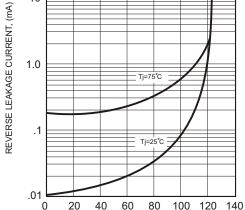


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

100

10



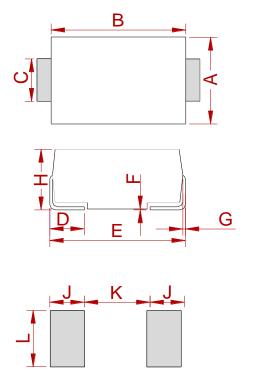
PERCENTAGE RATED PEAK REVERSE VOLTAGE



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PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
A	5.75	6.25	0.226	0.246		
В	6.90	7.40	0.272	0.291		
С	2.75	3.25	0.108	0.128		
D	0.95	1.52	0.037	0.060		
E	7.70	8.20	0.303	0.323		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	2.15	2.62	0.085	0.103		
J	2.40		0.094			
К		4.20		0.165		
L	3.30		0.130			

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REEL SPECIFICATION

P/N	PKG	QTY
SK52C THRU SK510C	SMC	3000



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