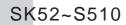




DATA SHEET



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE- 20 to 100 Volts CURRENT- 5.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile packageBuilt-in strain relief
- Metal to silicon rectifier. majority carrier conduction
 Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260°C /10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic

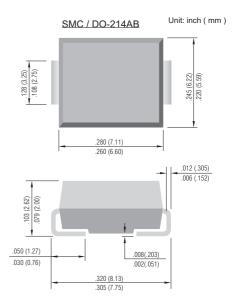
Terminals:Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes positive end (cathode)

Standard packaging: 16mm tape (EIA-481)

Weight: 0.007 ounce, 0.21 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

	SYMBOLS	SK52	SK53	SK54	SK55	SK56	SK58	SK59	S510	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20.0	30.0	40.0	50.0	60.0	80.0	90.0	100.0	V
Maximum RMS Voltage	VRMS	14.0	21.0	28.0	35.0	42.0	56.0	63.0	70.0	V
Maximum DC Blocking Voltage	VDC	20.0	30.0	40.0	50.0	60.0	80.0	90.0	100.0	V
Maximum Average Forward Rectified Current at T_L (See figure 1)	I(AV)	5.0							А	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100.0							А	
Maximum Instantaneous Forward Voltage at 5.0A (Note 1)	VF	0.50			0.75		0.85		V	
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	IR	0.5 20.0							mA	
Maximum Thermal Resistance(Note 2)	RθJL RθJA	17.0 55.0							°C/W	
Operating and Storage Temperature Range T _J	TJ	-50 to +125								°C
Storage Temperature Range	T _{STG}	-55 to +150							°C	

A.Pulse Test with PW =300 μ sec, 2% Duty Cycle.

B.Mounted on P.C. Board with 14mm² (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

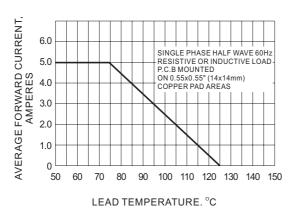


Fig.1- FORWARD CURRENT DERATING CURVE

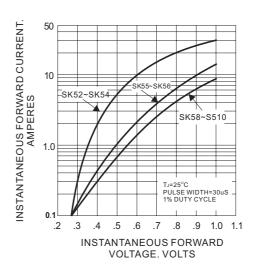
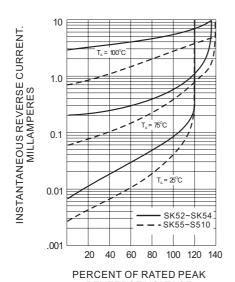


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



REVEERSE VOLTAGE
Fig.3-TYPICAL REVERSE CHARACTERISTICS

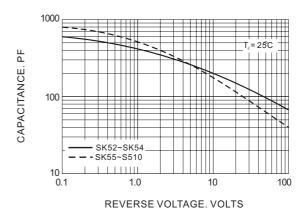


Fig.4-TYPICAL JUNCTION CAPACITANCE

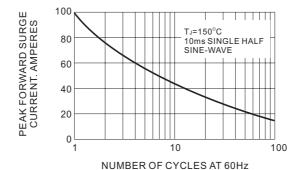


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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