

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

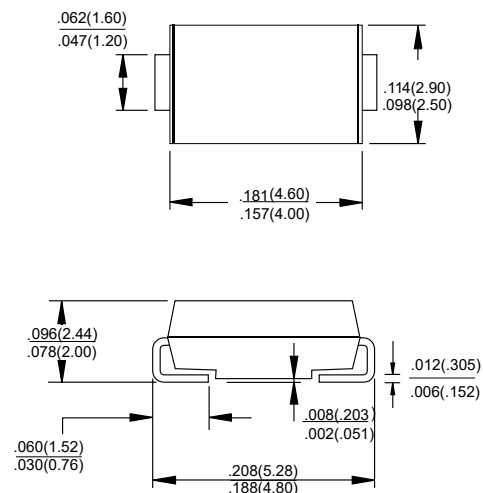
VOLTAGE- 20 to 200 Volts CURRENT- 5 .0 Amperes



FEATURES

SMA/DO-214AC Unit:inch(mm)

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-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
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- Pb free product at available : 99% Sn above meet RoHS environment substance directive request



MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SK52A	SK53A	SK54A	SK55A	SK56A	SK58A	SK510A	SK515A	SK520A	UNITS
Marking Code		SK52	SK53	SK54	SK55	SK56	SK58	SK510	SK515	SK520	
Maximum Recurrent Peak Reverse Voltage	VRRM	20.0	30.0	40.0	50.0	60.0	80.0	100.0	150.0	200.0	V
Maximum RMS Voltage	VRMS	14.0	21.0	28.0	35.0	42.0	56.0	70.0	105.0	140.0	V
Maximum DC Blocking Voltage	VDC	20.0	30.0	40.0	50.0	60.0	80.0	100.0	150.0	200.0	V
Maximum Average Forward Rectified Current at TL (See figure 1)	I(AV)	5.0									A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100.0									A
Maximum Instantaneous Forward Voltage at 5.0A (Note 1)	VF	0.55			0.70		0.85		0.90	0.92	V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	I R	0.5 20.0									mA mA
Maximum Thermal Resistance(Note 2)	RθJL RθJA	17.0 55.0									°C/W
Operating Temperature Range	TJ	-55 to +150									°C
Storage Temperature Range	TSTG	-55 to +150									°C

NOTES:

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

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

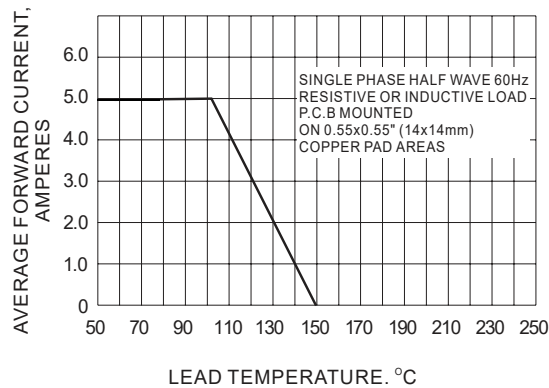


Fig.1- FORWARD CURRENT DERATING CURVE

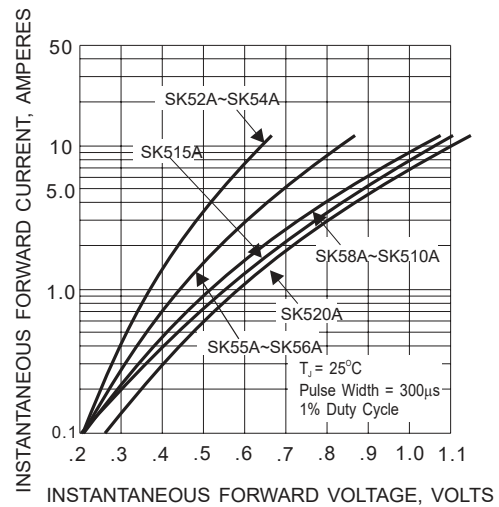


Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

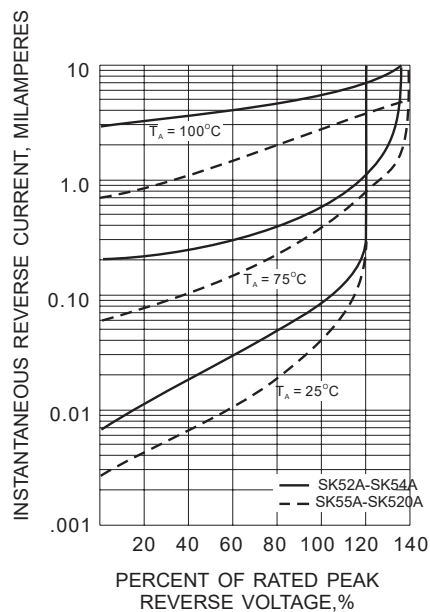


Fig.3- TYPICAL REVERSE CHARACTERISTIC

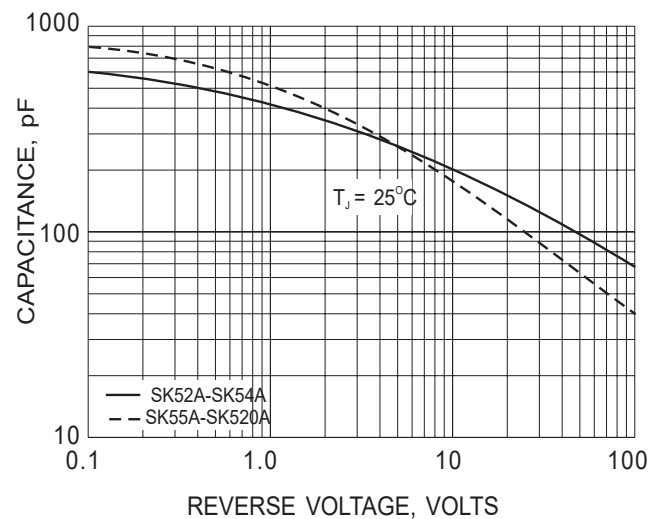


Fig.4- TYPICAL JUNCTION CAPACITANCE

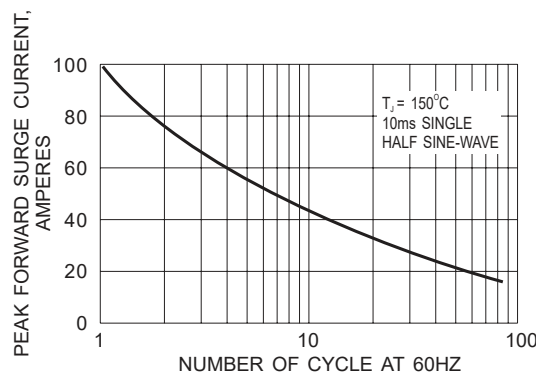


Fig.5- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT