

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

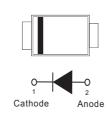
VOLTAGE 20 to 60 Volt CURRENT 5 Ampere

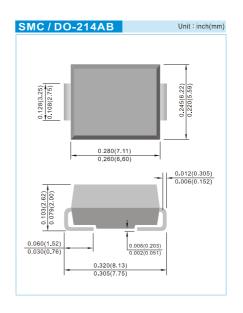
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounces, 0.2325 grams





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SK52	SK53	SK54	SK55	SK56	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	٧
Maximum Average Forward Rectified Current at T _L =75°C	I _{F(AV)}	5					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100					Α
Maximum Forward Voltage at 5A (Note 1)	V _F	0.55 0.75			V		
Maximum DC Reverse Current at Rated DC Blocking $T_J = 25^{\circ}\text{C}$ Voltage $T_J = 100^{\circ}\text{C}$	I _R	0.2 20				.1	mA
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	17 55				°C / W	
Operating Junction Temperature Range	T,	-55 to +125 -55 to +150				°C	
Storage Temperature Range	T _{stg}	-55 to +150					°C

NOTES:

- 1. Pulse Test with PW =300 μ sec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with $14mm^2$ (0.013mm thick) copper pad areas.



RATING AND CHARACTERISTIC CURVES

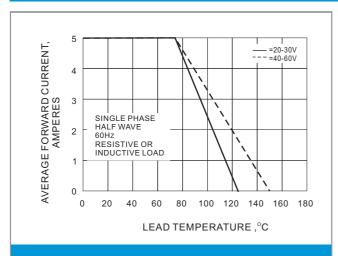


Fig.1 FORWARD CURRENT DERATING CURVE

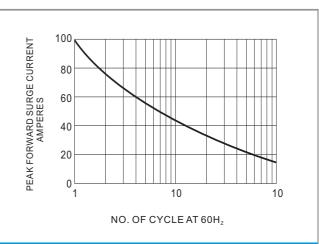


Fig.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

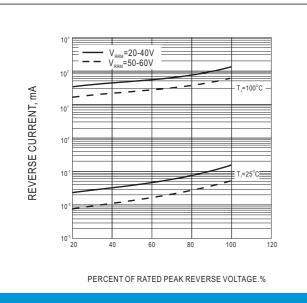


Fig.3 TYPICAL REVERSE CHARACTERISTIC

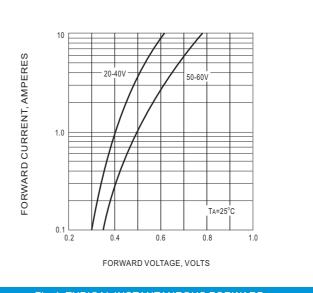
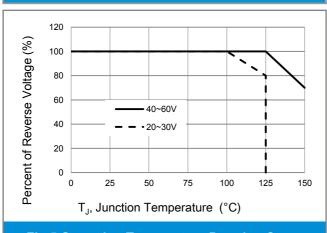
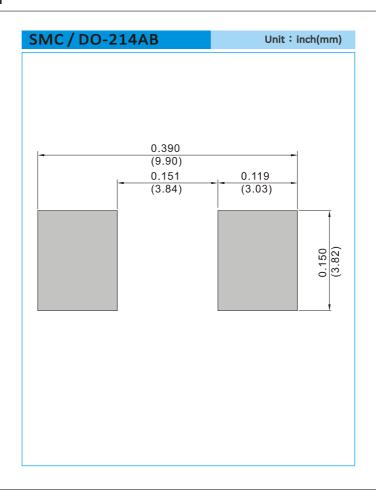


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



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