



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20 to 60 Volts **CURRENT** 5.0 Amperes

FEATURES

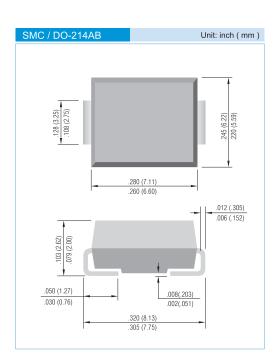
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- · For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · Lead free in comply with EU RoHS 2002/95/EC directives

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: 0.0082 ounce, 0.2325 gram







MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load.

SYMBOL	SK52	SK53	SK54	SK55	SK56	UNITS
V _{RRM}	20	30	40	50	60	٧
V _{RMS}	14	21	28	35	42	٧
V _{DC}	20	30	40	50	60	V
I _{F(AV)}	5.0				А	
I _{FSM}	100					А
V _F	0.55			0.75		V
I _R	0.2 20			0.1 20		mA
$R_{_{ heta JA}}$	17.0 55.0				°C / W	
T _J	-55 to +125 -55 to +150			0	°C	
T _{stg}	-55 to +150				°C	
	$\begin{array}{c} V_{\text{RRM}} \\ V_{\text{RMS}} \\ V_{\text{DC}} \\ \\ I_{F(\text{AV})} \\ \\ I_{FSM} \\ V_{F} \\ \\ I_{R} \\ \\ R_{\theta \text{JL}} \\ R_{\theta \text{JA}} \\ \\ T_{J} \end{array}$	V _{RRM} 20 V _{RMS} 14 V _{DC} 20 I _{F(AV)} I _{FSM} V _F I _R R _{0JL} R _{0JA} T _J -55 to	V _{RRM} 20 30 V _{RMS} 14 21 V _{DC} 20 30 I _{F(AV)} I _{FSM} V _F 0.55 I _R 0.2 20 R _{0,JL} R _{0,JA} T _J -55 to +125	V _{RRM} 20 30 40 V _{RMS} 14 21 28 V _{DC} 20 30 40 I _{F(AV)} 5.0 100 V _F 0.55 100 I _R 0.2 20 R _{0JL} R _{0JA} 17.0 55.0 T _J -55 to +125 -5	V _{RRM} 20 30 40 50 V _{RMS} 14 21 28 35 V _{DC} 20 30 40 50 I _{F(AV)} 5.0 5.0 100 V _F 0.55 0. 0.2 0 0.2	V _{RRM} 20 30 40 50 60 V _{RMS} 14 21 28 35 42 V _{DC} 20 30 40 50 60 I _{FOAV} 5.0 5.0 5.0 60 I _{FSM} 100 0.75 0.75 0.75 0.75 0.1 20

NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 14mm^2 (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

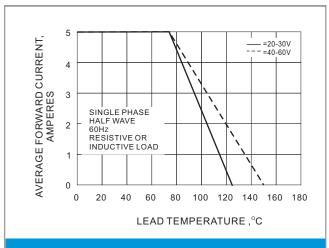


Fig.1- FORWARD CURRENT DERATING CURVE

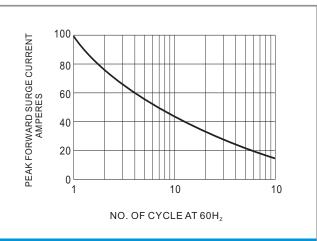
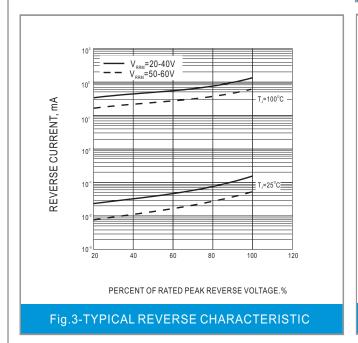


Fig.2 -MAXIMUM NON-REPETITIVE SURGE CURRENT



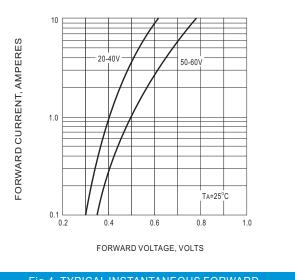


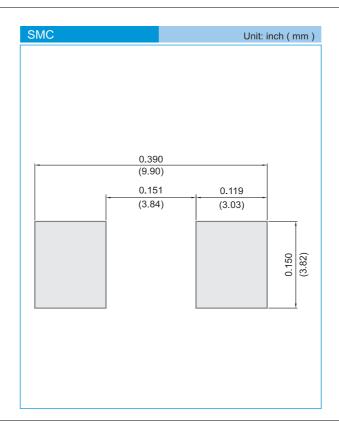
Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5Kper 7" plastic Reel

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