



SX32 thru SX310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SMA/DO-214AC

Unit: inch (mm)

VOLTAGE 20 to 100 Volts **CURRENT** 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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 2011/65/EU directives

MECHANICAL DATA

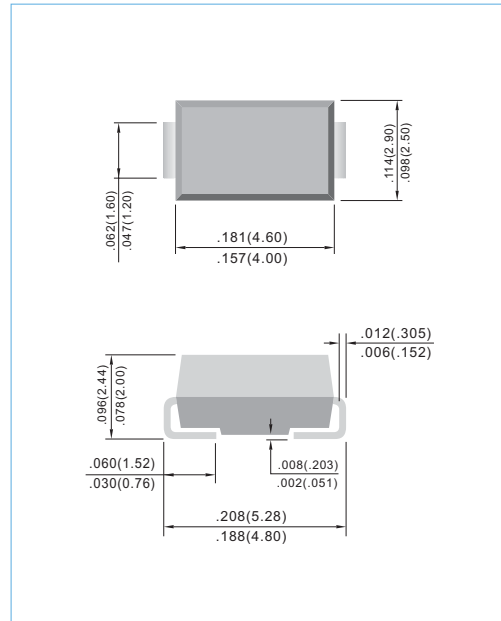
Case: JEDEC DO-214AC molded plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes positive end (cathode)

Standard packaging: 12mm tape (EIA-481)

Weight: 0.002 ounce, 0.064 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load.

PARAMETER	SYMBOL	SX32	SX33	SX34	SX35	SX36	SX38	SX39	SX310	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	64	70	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	V	
Maximum Average Forward Current at $T_L=75^\circ\text{C}$	$I_{F(AV)}$	3.0								A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	80								A	
Maximum Forward Voltage at 3.0A (Note 1)	V_F	0.5			0.68		0.85			V	
Maximum DC Reverse Current $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R						0.5		20		mA
Maximum Thermal Resistance (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$						20		75		$^\circ\text{C} / \text{W}$
Operating Junction Temperature Range	T_J						-55 TO +125				$^\circ\text{C}$
Storage Temperature Range	T_{STG}						-55 TO +150				$^\circ\text{C}$

NOTES:

1. Pulse Test with $PW = 300\mu\text{sec}$, 1% Duty Cycle.
2. Mounted on P.C. Board with 8.0mm^2 (.013mm thick) copper pad areas.



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RATING AND CHARACTERISTIC CURVES

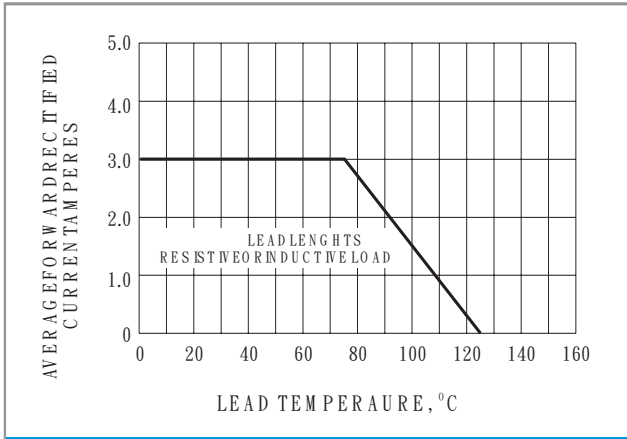


Fig. 1 FORWARD CURRENT DERATING CURVE

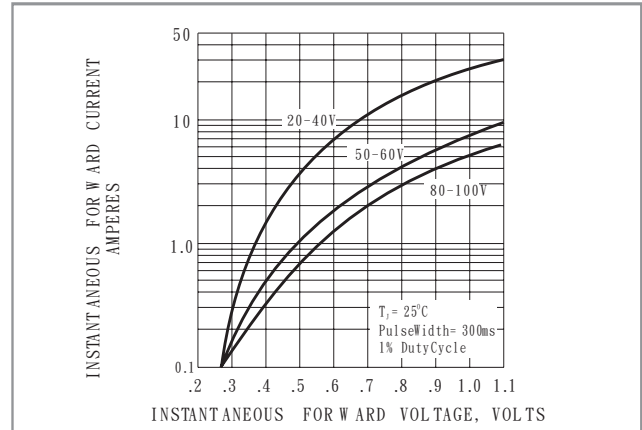


Fig. 2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

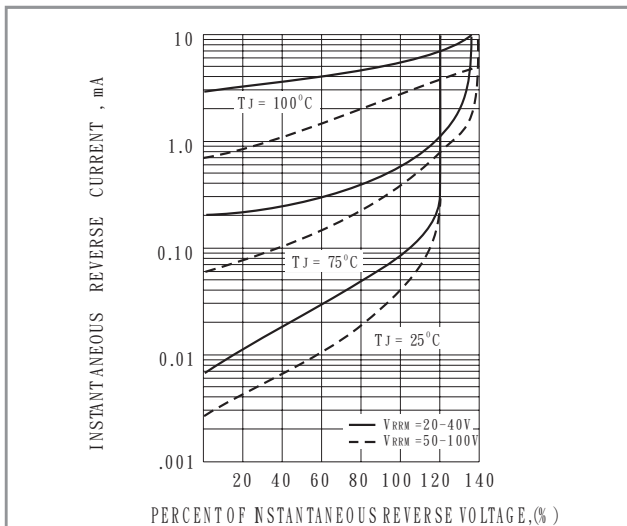


Fig. 3 TYPICAL REVERSE CHARACTERISTIC

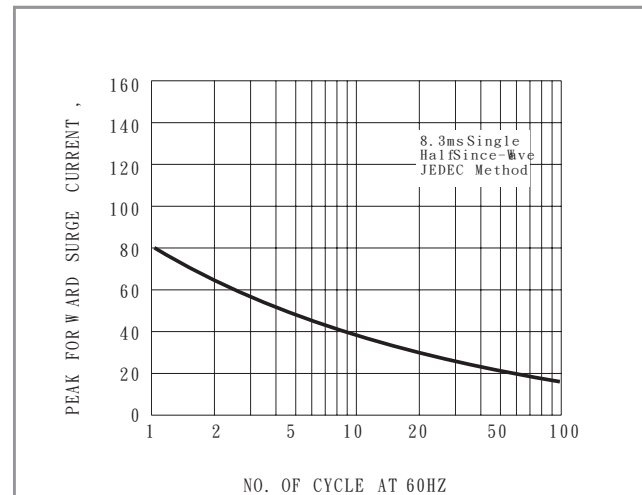


Fig. 4 MAXIMUM NON-REPETITIVE SURGE CURRENT

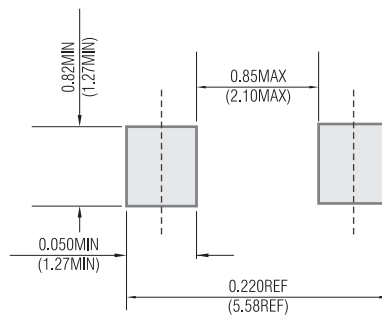


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MOUNTING PAD LAYOUT

SMA/DO-214AC

Unit: inch (mm)



ORDER INFORMATION

- Packing information
 - T/R - 7.5K per 13" plastic Reel
 - T/R - 1.8Kper 7" plastic Reel



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