

## SR32 ~ SR36

### MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE**

**20 to 60 Volt**

**CURRENT**

**3 Ampere**

**SMB / DO-214AA**

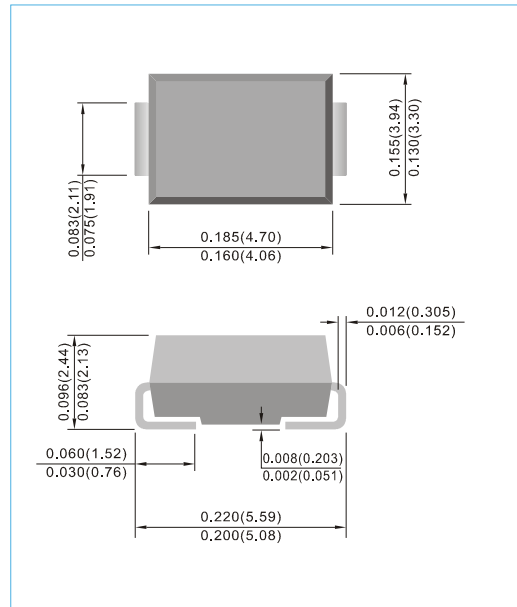
Unit : inch(mm)

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounces, 0.092 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

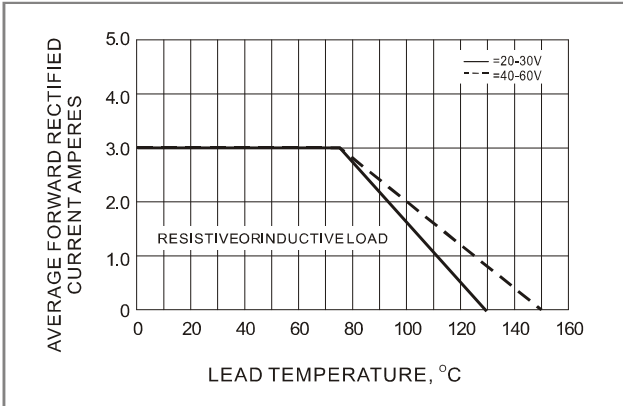
PARAMETER	SYMBOL	SR32	SR33	SR34	SR35	SR36	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	V
Maximum Average Forward Current Lead Length	$I_{F(AV)}$	3					A
Peak Forward Surge Current : 8.3ms Single Half Sine-Wave Superimposed On Rated Load	$I_{FSM}$	80					A
Maximum Forward Voltage at 3A (Note 1)	$V_F$	0.5			0.75		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^{\circ}C$ $T_J=100^{\circ}C$	$I_R$	0.2 20			0.1 20		mA
Typical Thermal Resistance (Note 2) (Note 3)	$R_{\theta JL}$ $R_{\theta JA}$	23 135					°C / W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125			-55 to +150		°C

#### NOTES :

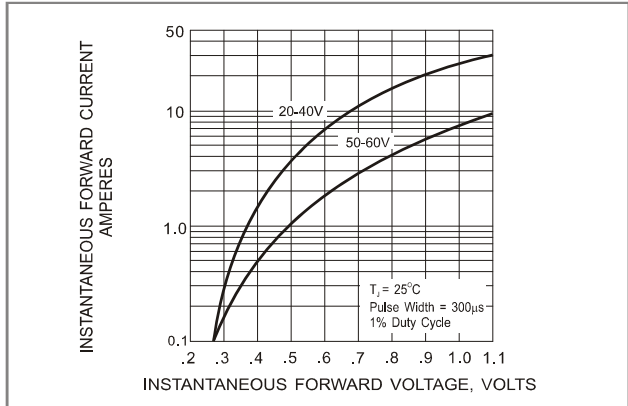
1. Pulse Test with PW =300µsec, 2% Duty Cycle.
2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.
3. Mounted on a FR4 PCB, single-sided copper, mini pad.

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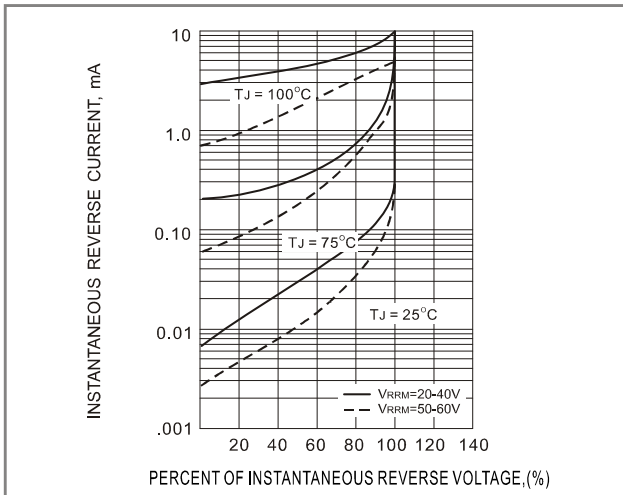
## RATING AND CHARACTERISTIC CURVES



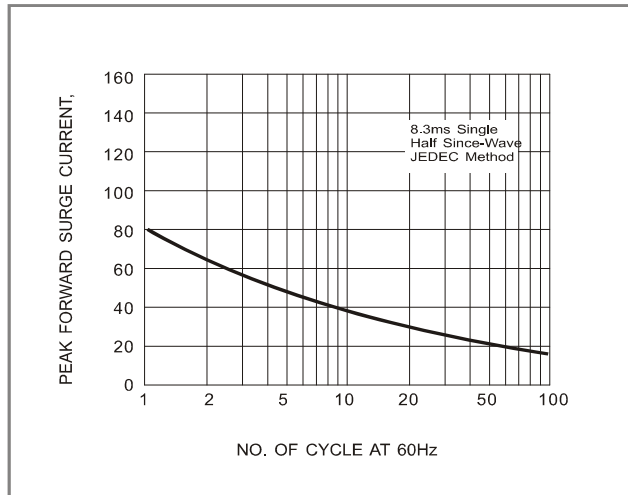
**Fig.1- FORWARD CURRENT DERATING CURVE**



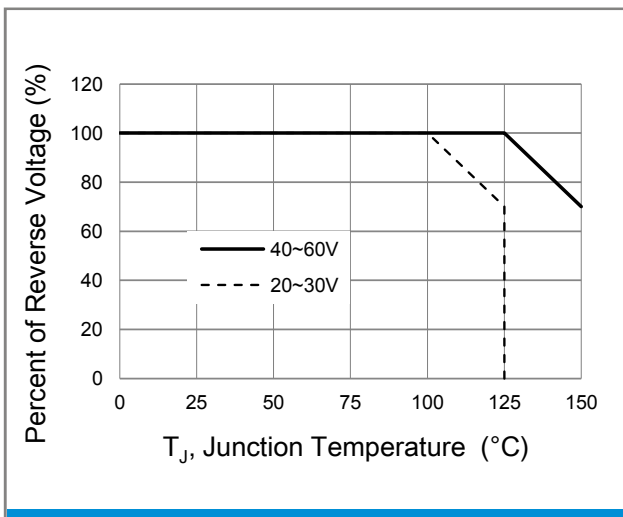
**Fig.2- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC**



**Fig.3- TYPICAL REVERSE CHARACTERISTIC**



**Fig.4- MAXIMUM NON - REPETITIVE SURGE CURRENT**



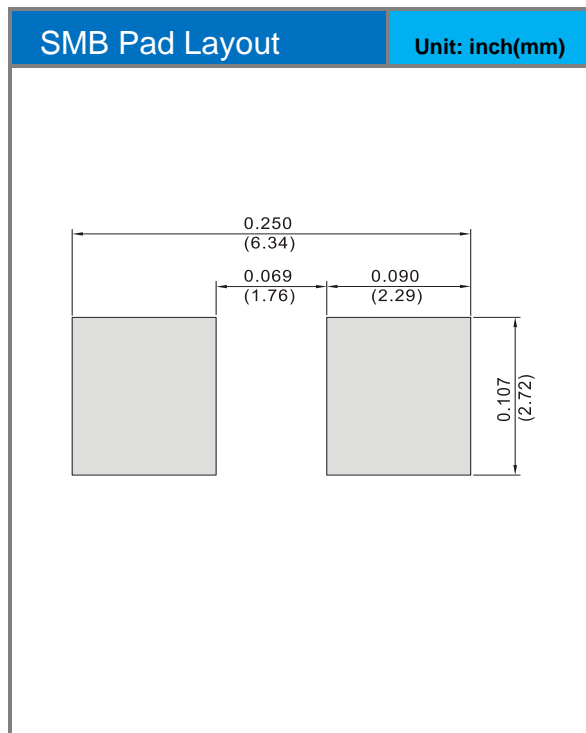
**Fig.5- OPERATING TEMPERATURE DERATING CURVE**

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### Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SR3x	SMB	0.8K pcs / 7" reel	SR3x
SR3x	SMB	3K pcs / 13" reel	SR3x

### Mounting Pad Layout



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