

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

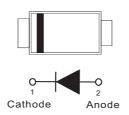
VOLTAGE 20 to 60 Volt CURRENT 3 Ampere

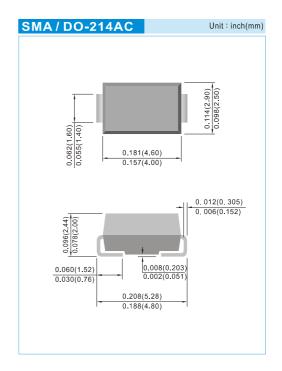
#### **FEATURES**

- 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-214AC 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: 0.0023 ounces, 0.0679 grams





### **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	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	20	30	40	50	60	V
Maximum RMS Voltage		V <sub>RMS</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Current		I <sub>F(AV)</sub>	3				А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	80				А	
Maximum Forward Voltage at 3A (Note 1)		V <sub>F</sub>	0.5		0.75		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =25°C T <sub>J</sub> =100°C	I <sub>R</sub>	0.2 20		0.1 20		mA	
Typical Thermal Resistance	(Note 2) (Note 3)	$R_{_{\theta JA}}$	25 150		°C / W			
Operating Junction and Storage Temperature Range		T <sub>J</sub> ,T <sub>STG</sub>	-55 to	+125	-55 to +150			°C

#### NOTES:

- 1. Pulse Test with PW =300µsec, 1% 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.



#### **RATING AND CHARACTERISTIC CURVES**

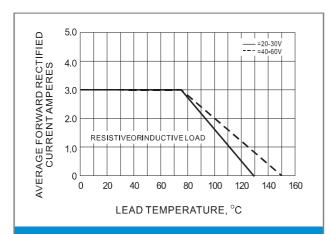


Fig.1- FORWARD CURRENT DERATING CURVE

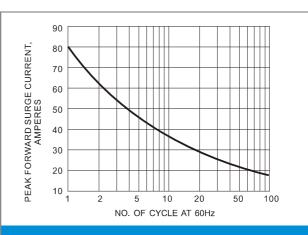


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

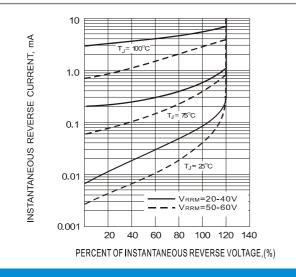


Fig.3- TYPICAL REVERSE CHARACTERISTICS

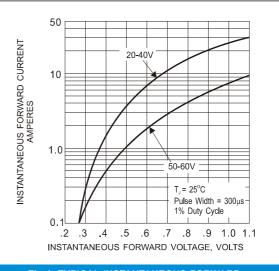


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

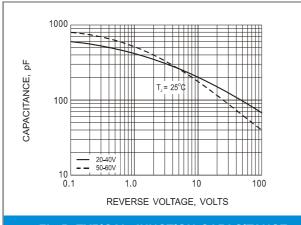


Fig.5- TYPICAL JUNCTION CAPACITANCE

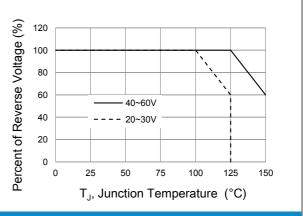
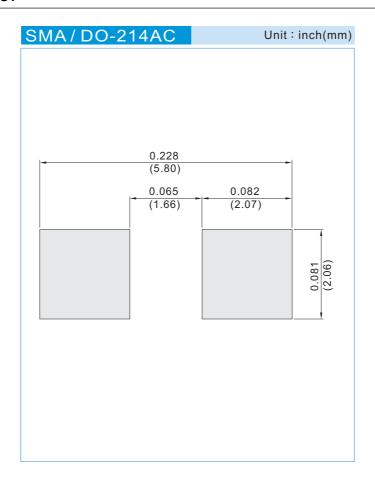


Fig.6- OPERATING TEMPERATURE DERATING CURVE



## MOUNTING PAD LAYOUT



## **ORDER INFORMATION**

Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel



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