

## **Schottky Barrier Rectifiers**

--- Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

#### **Features**

- \*Low Forward Voltage.
- \*Low Switching noise.
- \*High Current Capacity
- \* Guarantee Reverse Avalanche.
- \* Guard-Ring for Stress Protection.
- \*Low Power Loss & High efficiency.
- **\***150° C Operating Junction Temperature
- \*Low Stored Charge Majority Carrier Conduction.
- \* Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O



\* In compliance with EU RoHs 2002/95/EC directives
The marking is indicated by part no. with. "M". ex:SR307M~SR3100M

### **MAXIMUM RATINGS**

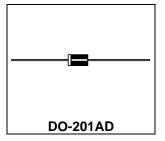
Characteristic	Symbol	SR				l lmi4
		307	308	309	3100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	70	80	90	100	<b>V</b>
RMS Reverse Voltage	VR <sub>(RMS)</sub>	49	56	63	70	V
Average Rectifier Forward Current	lo	3			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase,60Hz)	I <sub>FSM</sub>	75			Α	
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150			$^{\circ}\!\mathbb{C}$	

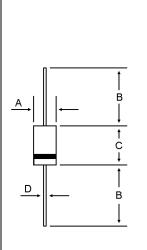
#### **ELECTRIAL CHARACTERISTICS**

Characteristic	Symbol	SR				Unit
Characteristic		307	308	309	3100	Unit
Maximum Instantaneous Forward Voltage (I <sub>F</sub> =3.0 Amp)	V <sub>F</sub>	0.75		0.85		٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$ ) (Rated DC Voltage, $T_C = 125^{\circ}C$ )	I <sub>R</sub>	0.01 10			mA	
Maximum Thermal Resistance Junction to Case	R <sub>θJC</sub>	40			°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	$C_P$	180		15	50	₽F

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 70-100 VOLTS



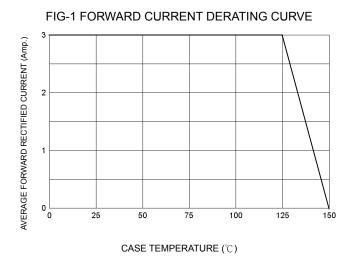


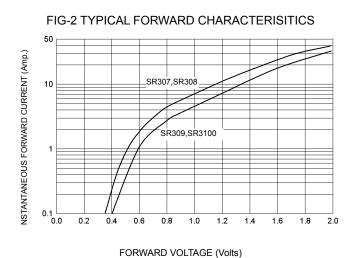
DIM	MILLIMETERS			
ווועו	MIN	MAX		
Α	5.00	5.60		
В	25.40			
С	7.20	9.50		
D	1.20	1.30		

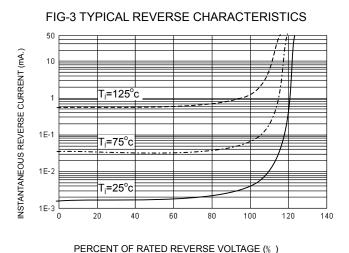
CASE--Transfer molded plastic

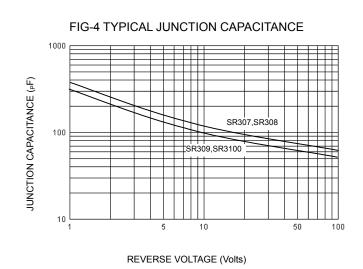
POLARITY--Cathode indicated

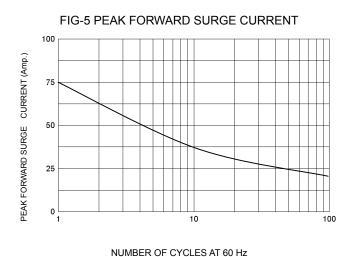
polarity band











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