

## **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:SR207M~SR2100M

## **MAXIMUM RATINGS**

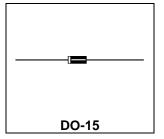
Characteristic	Symbol	SR				Unit
		207	208	209	2100	Onit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	70	80	90	100	V
RMS Reverse Voltage	VR <sub>(RMS)</sub>	49	56	63	70	V
Average Rectifier Forward Current	Io	2			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase,60Hz)	I <sub>FSM</sub>	50			Α	
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150			$^{\circ}\! C$	

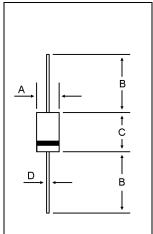
# **ELECTRIAL CHARACTERISTICS**

Characteristic	Symbol	SR				Unit
Characteristic		207	208	209	2100	Onit
Maximum Instantaneous Forward Voltage $(I_F = 2.0 \text{ Amp})$	V <sub>F</sub>	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$ ) (Rated DC Voltage, $T_C = 100^{\circ}C$ )	I <sub>R</sub>	0.5 20				mA
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C <sub>P</sub>	80		75		P <sub>F</sub>
Typical Thermal Resistance(Note 1)	$R_{\theta JL}$	25			°C/W	

# SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 70-100 VOLTS





DIM	MILLIMETERS			
ווועו	MIN	MAX		
Α	2.60	3.60		
В	25.40			
С	5.50	7.60		
D	0.70	0.90		

CASE---

Transfer molded plastic

POLARITY---Cathode indicated polarity band

### Note:

<sup>1.</sup> Thermal Resistance from Junction to lead length at .375"(9.5mm) temperature, P.C. board mounted

