

# **Schottky Barrier Rectifiers**

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. proprietary barrier technology allows for reliable operation up to 150°C junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters 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
- \* Moisture Sensitivity Level: MSL-1



\* In compliance with EU RoHs 2002/95/EC directives
The marking is indicated by part no. with. "M". ex:SR3150M

## **MAXIMUM RATINGS**

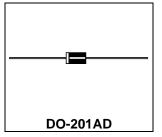
Characteristic	Symbol	SR3150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	150	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	105	V
Average Rectifier Forward Current	Io	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I <sub>FSM</sub>	75	А
Operating and Storage Junction Temperature Range	$T_J$ , $T_{STG}$	-65 to +150	$^{\circ}\!\mathbb{C}$

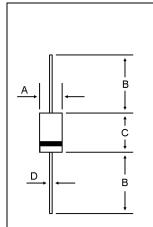
# **ELECTRIAL CHARACTERISTICS**

Characteristic	Symbol	SR3150	Unit	
Maximum Instantaneous Forward Voltage ( I <sub>F</sub> =3.0 Amp.)	V <sub>F</sub>	0.95	V	
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>eJC</sub>	55	°C/W	
Typical Junction Capacitance ( Reverse Voltage of 4 volts & f=1 MHz )	СР	150	₽F	

### SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 150 VOLTS





DIM	MILLIMETERS		
וועו	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

