

# **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:SR2150M

## **MAXIMUM RATINGS**

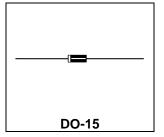
Characteristic	Symbol	SR2150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	150	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	105	٧
Average Rectifier Forward Current	Io	2.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I <sub>FSM</sub>	50	А
Operating and Storage Junction Temperature Range	$T_{J}$ , $T_{STG}$	-65 to +150	$^{\circ}$

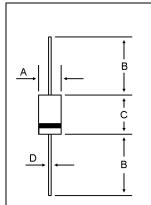
# **ELECTRIAL CHARACTERISTICS**

Characteristic	Symbol	SR2150	Unit
Maximum Instantaneous Forward Voltage ( I <sub>F</sub> =2.0 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	$R_{ heta JC}$	55	°C/W
Typical Junction Capacitance ( Reverse Voltage of 4 volts & f=1 MHz )	$C_P$	80	₽F

### SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 150 VOLTS





DIM	MILLIMETERS		
DIM	MIN	MAX	
Α	2.60	3.60	
В	25.40		
С	5.80	7.60	
D	0.70	0.90	

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band

