

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

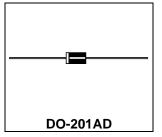
Characteristic	Symbol	SR3150	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
RMS Reverse Voltage	V _{R(RMS)}	105	V
Average Rectifier Forward Current	Io	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,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

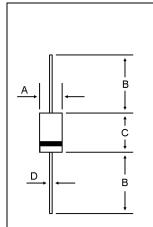
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR3150	Unit	
Maximum Instantaneous Forward Voltage (I _F =3.0 Amp.)	V _F	0.95	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.01 10	mA	
Maximum Thermal Resistance Junction to case	R _{eJC}	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

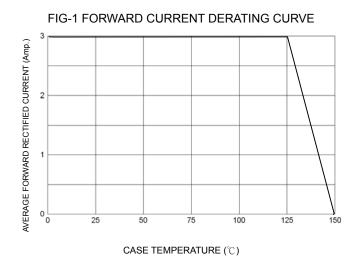


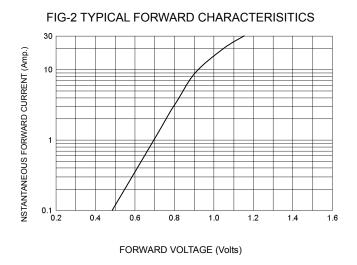


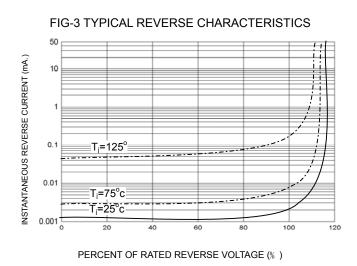
DIM	MILLIMETERS		
וועו	MIN	MAX	
Α	5.00	5.60	
В	25.40		
С	7.20	9.50	
D	1.20	1.30	

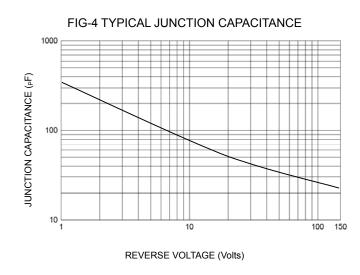
CASE---Transfer molded plastic

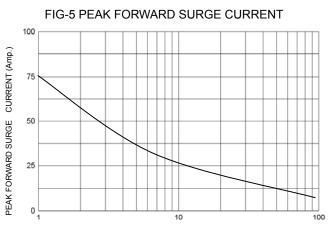
POLARITY---Cathode indicated polarity band













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