

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
- * Moisture Sensitivity Level: MSL-1
- *Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives

The marking is indicated by part no. with. "M". ex:SR2200M



MAXIMUM RATINGS

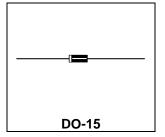
Characteristic	Symbol	SR2200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	Io	2.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)		50	А
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150	$^{\circ}\!\mathbb{C}$

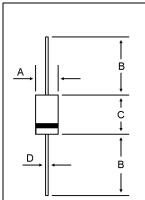
ELECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERIOTICS				
Characteristic	Symbol	SR2200	Unit	
Maximum Instantaneous Forward Voltage (I _F =2.0 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	$R_{ heta JC}$	55	°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	СР	80	₽F	

SCHOTTKY BARRIER RECTIFIERS

2.0 AMPERES 200 VOLTS



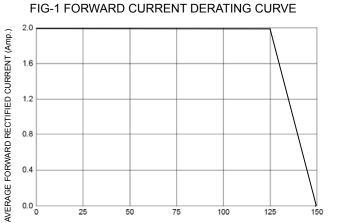


DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	2.60	3.60	
В	25.40		
С	5.50	7.60	
D	0.70	0.90	

CASE---

Transfer molded plastic

POLARITY---Cathode indicated polarity band 0.0

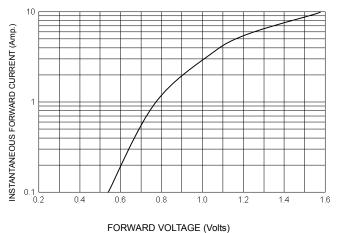


100

125

150







CASE TEMPERATURE ($^{\circ}$ C)

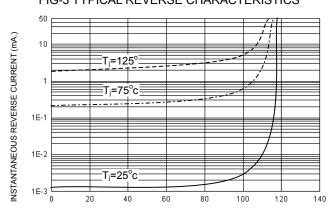
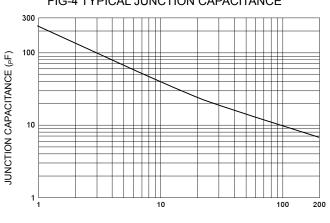


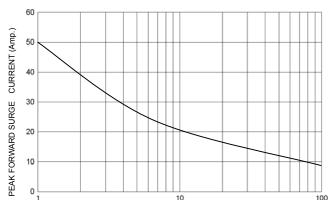
FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

PERCENT OF RATED REVERSE VOLTAGE (%)





NUMBER OF CYCLES AT 60 Hz



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