

SR2200



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 $^{\circ}$ 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 SR2200M

MAXIMUM RATINGS

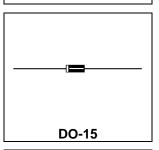
Characteristic	Symbol	SR2200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	Ι _Ο	2.0	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	50	A
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +150	°C

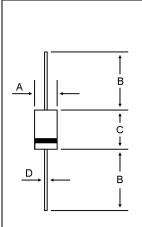
ELECTRIAL CHARACTERISTICS

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	$R_{ extsf{ heta}JC}$	55	°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	80	₽F



2.0 AMPERES 200 VOLTS

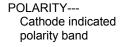




DIM	MILLIMETERS		
DIN	MIN	MAX	
А	2.60	3.60	
В	25.40		
С	5.80	7.60	
D	0.70	0.90	

CASE----Transfer molded

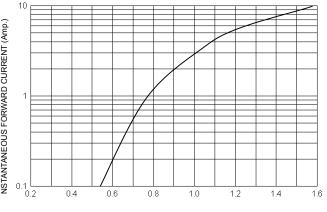
plastic



SR2200

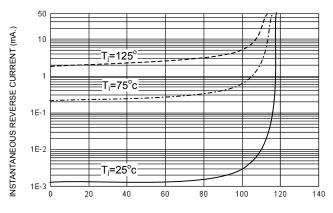
FIG-1 FORWARD CURRENT DERATING CURVE 10 2.0 AVERAGE FORWARD RECTIFIED CURRENT (Amp.) NSTANTANEOUS FORWARD CURRENT (Amp.) 1.6 1.2 1 0.8 0.4 0.0 L 0.1 └─ 0.2 25 50 75 100 125 150 0.4 CASE TEMPERATURE (°C)

FIG-2 TYPICAL FORWARD CHARACTERISITICS

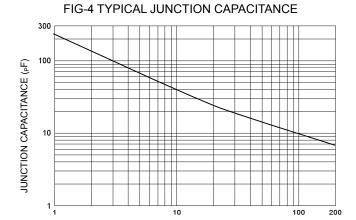


FORWARD VOLTAGE (Volts)

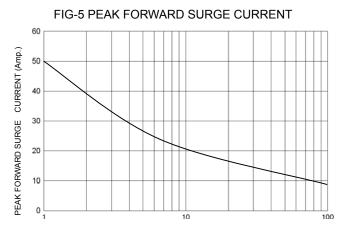
FIG-3 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)



REVERSE VOLTAGE (Volts)



NUMBER OF CYCLES AT 60 Hz