

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 175°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.
- *175°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:SR5200M

MAXIMUM RATINGS

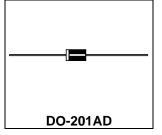
Characteristic	Symbol	SR3200J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	>
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	Io	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150	А
Operating and Storage Junction Temperature Range	T_J,T_STG	-65 to +175	$^{\circ}$

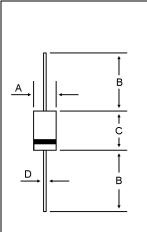
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR3200J	Unit	
Maximum Instantaneous Forward Voltage ($I_F = 3.0 \text{ Amp.}$)	V _F	0.88	V	
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	0.5 3	uA mA	
Maximum Thermal Resistance Junction to case	$R_{ heta JC}$	6.5	°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	320	₽F	

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 200 VOLTS

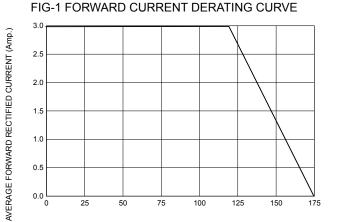




DIM	MILLIMETERS		
ווועו	MIN	MAX	
Α	5.00	5.60	
В	25.40		
С	8.50	9.50	
D	1.20	1.30	

CASE---Transfer molded plastic

POLARITY---Cathode indicated polarity band





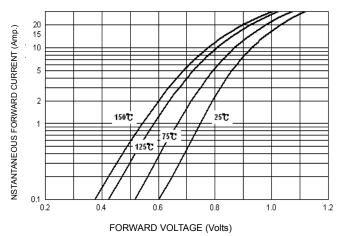




FIG-3 TYPICAL REVERSE CHARACTERISTICS

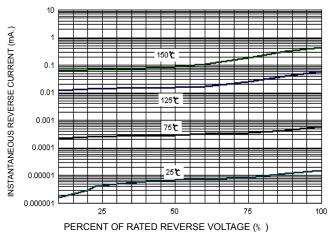


FIG-4 TYPICAL JUNCTION CAPACITANCE

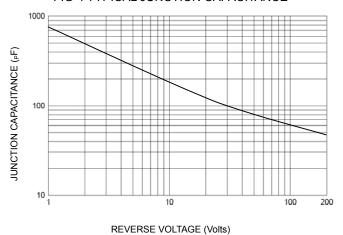
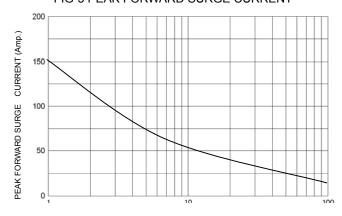


FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz



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