

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



MAXIMUM RATINGS

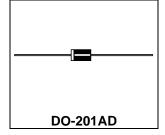
Characteristic	Symbol	SR5200J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	>
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	Io	5.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150	Α
Operating and Storage Junction Temperature Range	T_J,T_STG	-65 to +175	$^{\circ}$ C

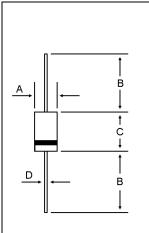
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR5200J	Unit
Maximum Instantaneous Forward Voltage (I _F =5.0 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 _{eJC}	6.5	°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	СР	320	₽F

SCHOTTKY BARRIER RECTIFIERS

5.0 AMPERES 200 VOLTS

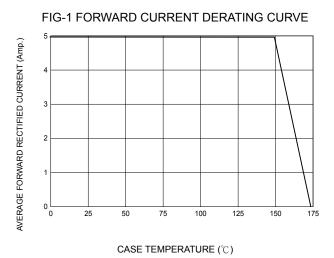


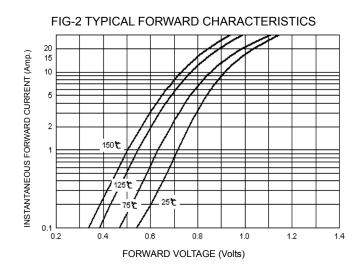


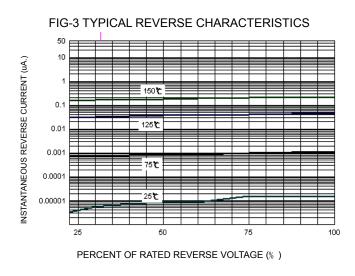
DIM	MILLIMETERS	
DIIVI	MIN	MAX
Α	5.00	5.60
В	25.40	
С	8.50	9.50
D	1.18	1.22

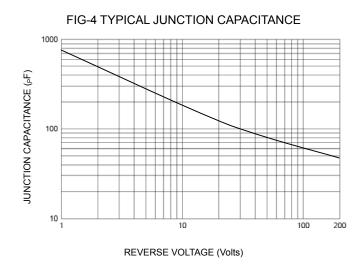
CASE---Transfer molded plastic

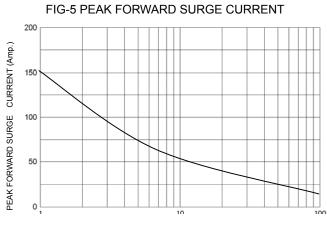
POLARITY---Cathode indicated polarity band











NUMBER OF CYCLES AT 60 Hz



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