

SR3200



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:SR3200M

MAXIMUM RATINGS

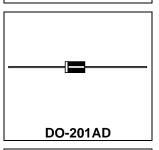
Characteristic	Symbol	SR3200	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current	Ι _ο	3.0	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	75	А
Operating and Storage Junction Temperature Range	T_J , T_STG	-65 to +150	°C

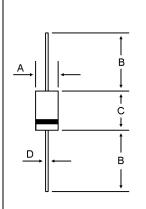
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR3200	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	$R_{ extsf{ heta}JC}$	55	°C/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	150	РÈ

SCHOTTKY BARRIER RECTIFIERS

> 3.0 AMPERES 200 VOLTS





DIM	MILLIMETERS		
	MIN	MAX	
А	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

SR3200

FIG-1 FORWARD CURRENT DERATING CURVE

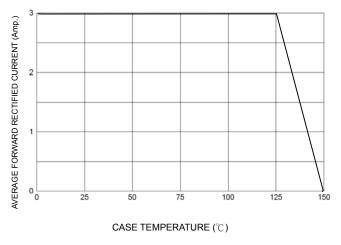
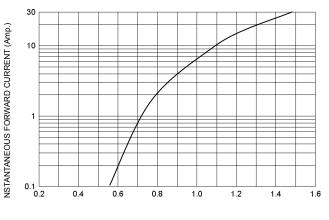
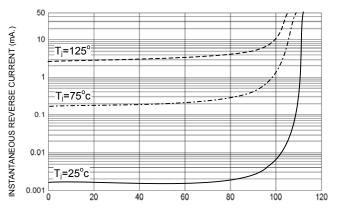


FIG-2 TYPICAL FORWARD CHARACTERISITICS



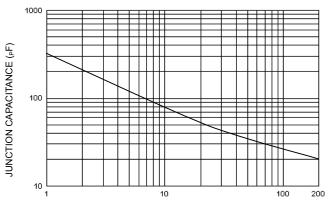
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS

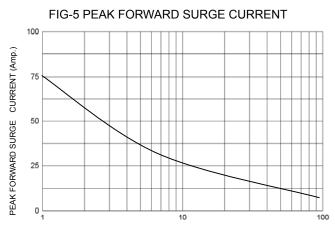


PERCENT OF RATED REVERSE VOLTAGE (%)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)



NUMBER OF CYCLES AT 60 Hz