

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 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 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

MAXIMUM RATINGS

Characteristic	Symbol	SR220	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	lo	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	

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR220	Unit
Maximum Instantaneous Forward Voltage (I _F =2.0 Amp.)	V_{F}	0.95	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.01 10	mA
Maximum Thermal Resistance Junction to case	$R_{ extsf{ heta}JC}$	55	/W
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	80	₽F

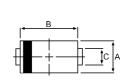


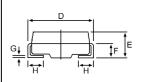
SCHOTTKY BARRIER

RECTIFIERS



DO-214AA(SMB)





DIM	MILLIM	ILLIMETERS	
	MIN	MAX	
А	3.30	3.90	
В	4.20	4.60	
С	1.80	2.20	
D	5.10	5.60	
Е	1.90	2.50	
F		1.30	
G		0.22	
Н	0.95	1.35	

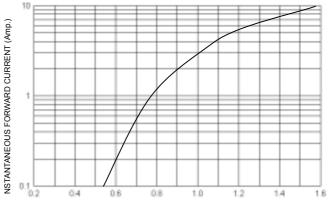
CASE----Transfer molded plastic

```
POLARITY---
Cathode indicated
polarity band
```

SR220

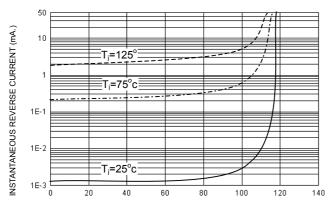
FIG-1 FORWARD CURRENT DERATING CURVE

FIG-2 TYPICAL FORWARD CHARACTERISITICS

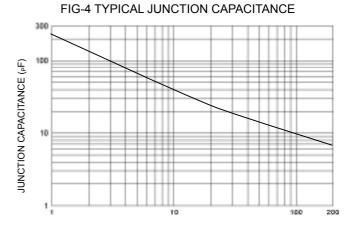


FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED REVERSE VOLTAGE (%)



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CORRENT

NUMBER OF CYCLES AT 60 Hz

FIG-5 PEAK FORWARD SURGE CURRENT