

Schottky Barrier Rectifiers

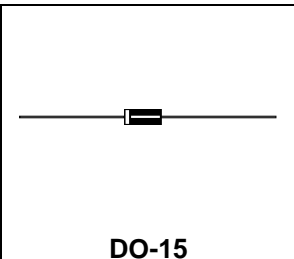
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

- * 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-0
- * *In compliance with EU RoHs 2002/95/EC directives*



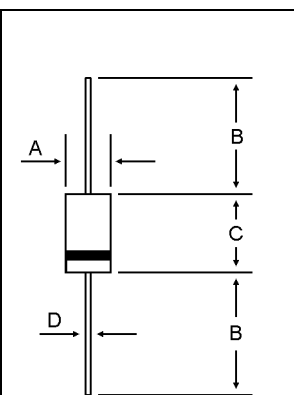
SCHOTTKY BARRIER RECTIFIERS

**2.0 AMPERES
70-100 VOLTS**



MAXIMUM RATINGS

Characteristic	Symbol	SR207	SR208	SR209	SR2100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	70	80	90	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	49	56	63	70	V
Average Rectifier Forward Current	I_O	2.0				A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I_{FSM}	50				A
Operating and Storage Junction Temperature Range	T_J, T_{STG}	-65 to +150				



DIM	MILLIMETERS	
	MIN	MAX
A	2.60	3.60
B	25.40	---
C	5.50	7.60
D	0.70	0.90

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR207	SR208	SR209	SR2100	Unit
Maximum Instantaneous Forward Voltage ($I_F = 2.0$ Amp)	V_F	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^\circ$) (Rated DC Voltage, $T_C = 125^\circ$)	I_R	0.5 20				mA
Maximum Thermal Resistance Junction to Case	$R_{\theta JC}$	50				$^\circ C/W$
Typical Junction Capacitance (Reverse Voltage of 4 volts & $f=1$ MHz)	C_P	80		75		pF

CASE---
Transfer molded plastic

POLARITY---
Cathode indicated polarity band

SR207 Thru SR2100

FIG-1 FORWARD CURRENT DERATING CURVE

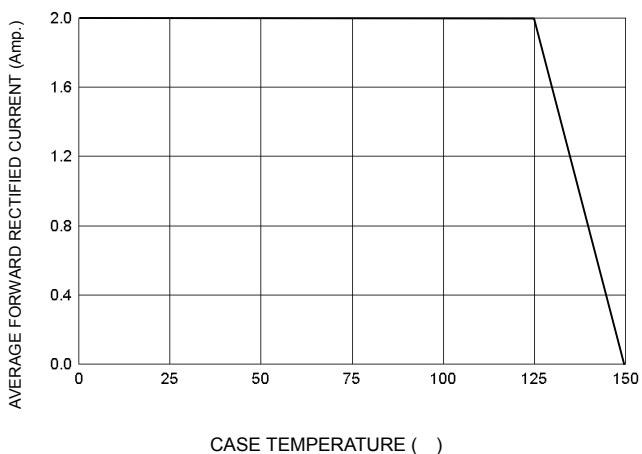


FIG-2 TYPICAL FORWARD CHARACTERISTICS

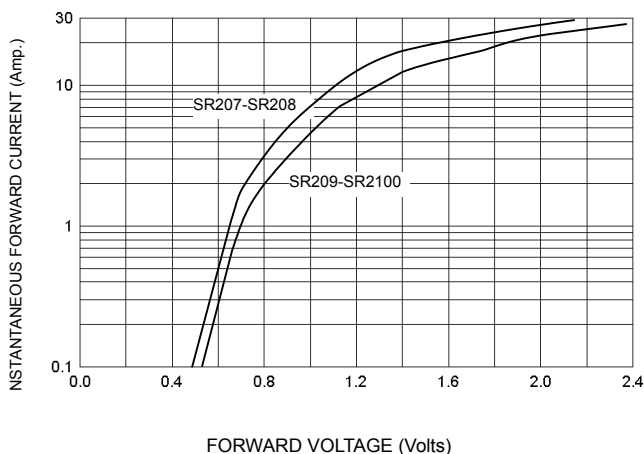


FIG-3 TYPICAL REVERSE CHARACTERISTICS

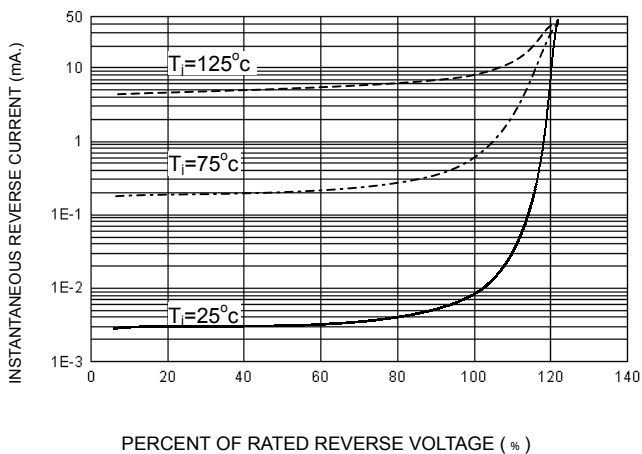


FIG-4 TYPICAL JUNCTION CAPACITANCE

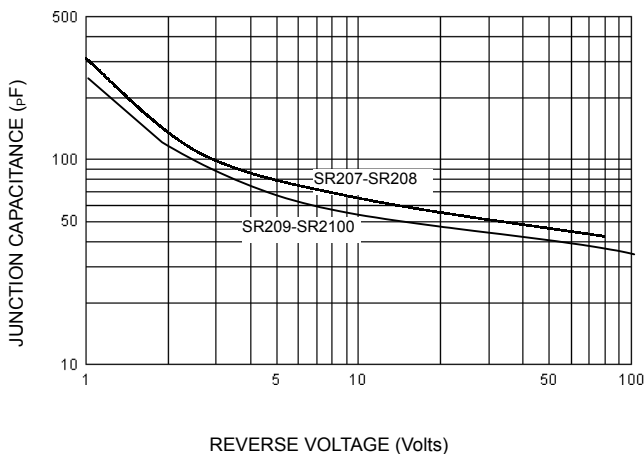


FIG-5 PEAK FORWARD SURGE CURRENT

