

Surface Mount Schottky Barrier rectifiers

Using the Schottky Barrier principle with a Molybdenum barrier meta. 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, in surface mount applications where compact size and weight are critical to the system.

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

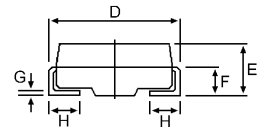
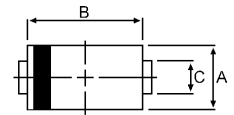


SCHOTTKY BARRIER RECTIFIERS

**2.0 AMPERES
70-100 VOLTS**



DO-214AA(SMB)



MAXIMUM RATINGS

Characteristic	Symbol	SR27	SR28	SR29	SR210	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	3.30	3.90
B	4.20	4.60
C	1.80	2.20
D	5.10	5.60
E	1.90	2.50
F		1.30
G		0.22
H	0.95	1.35

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	SR27	SR28	SR29	SR210	Unit
Maximum Instantaneous Forward Voltage ($I_F = 2.0$ Amp)	V_F	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	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

SR27 Thru SR210

FIG-1 FORWARD CURRENT DERATING CURVE

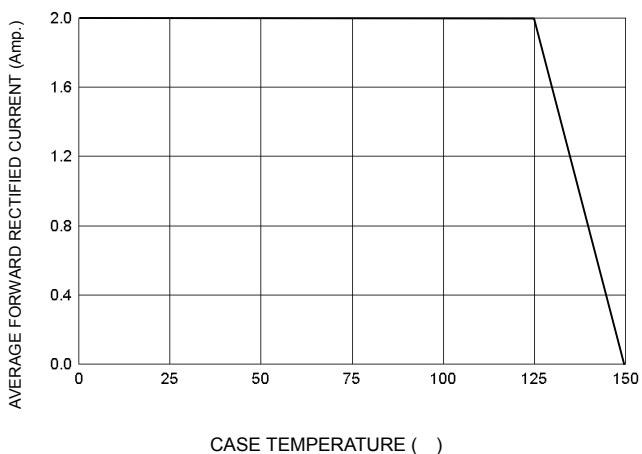


FIG-2 TYPICAL FORWARD CHARACTERISTICS

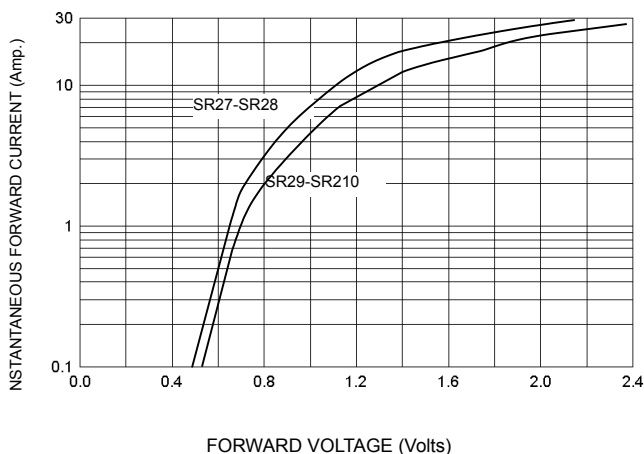


FIG-3 TYPICAL REVERSE CHARACTERISTICS

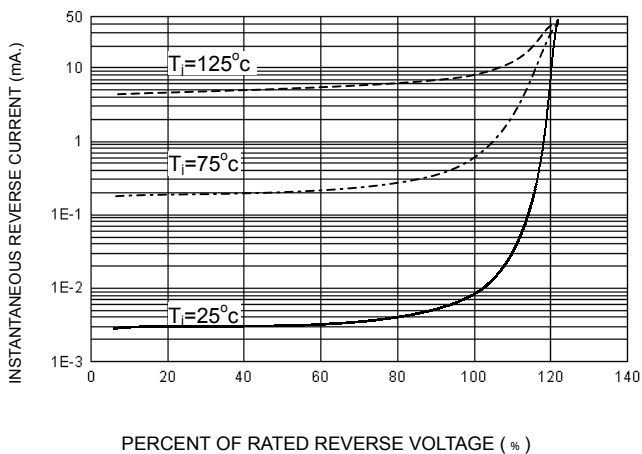


FIG-4 TYPICAL JUNCTION CAPACITANCE

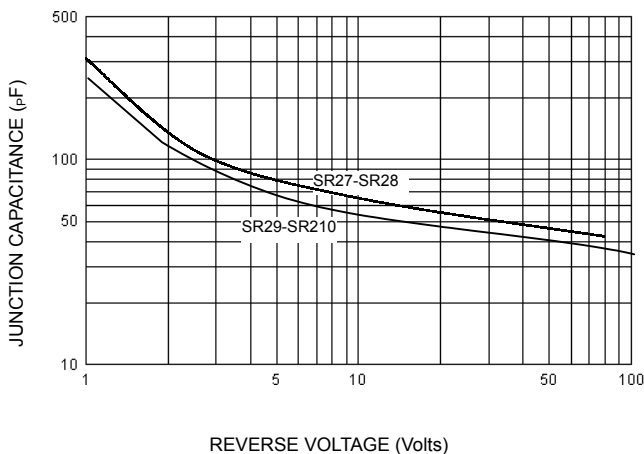


FIG-5 PEAK FORWARD SURGE CURRENT

