

Suface Mount 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, in surface mount applications where compact size and weight are critical to the system.

- * Low Forward Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalance.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Cnduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

MAXIMUM RATINGS

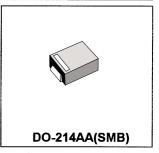
Characteristic	Symbol	SR37	SR38	SR39	SR310	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	٧
Average Rectifier Forward Current	l _o	3.0			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware,single phase,60Hz)	İ _{FSM}	75			Α	
Operating and Storage Junction Temperature Range	T _j , T _{stg}		- 65 to	+ 125		°C

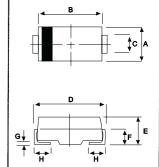
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	SR37	SR38	SR39	SR310	Unit
Maximum Instantaneous Forward Voltage (I _F =3.0 Amp)	V _F	0.	75	0.	85	٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 100 °C)	l _R	3.0 50		mA		
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	18	30	1:	50	pF

SCHOTTKY BARRIER RECTIFIERS

3.0 AMPERES 70 -100 VOLTS





DIM	MILLMETERS				
	MIN	MAX			
Α	3.30	3.90			
В	4.20	4.60			
С	1.80	2.20			
D	4.90	5.60			
E	1.90	2.50			
F		1.30			
G		0.22			
н	0.85	1.45			

CASE---

Transfer molded plastic

POLARITY--Cathode indicated polarity band

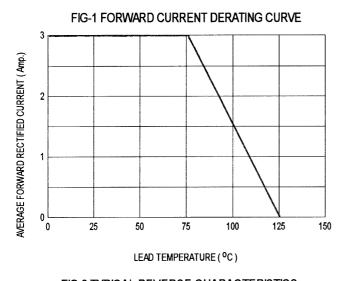
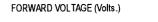
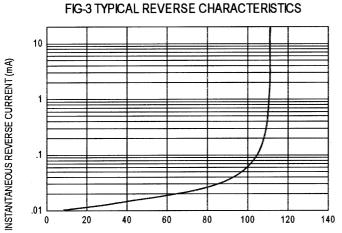
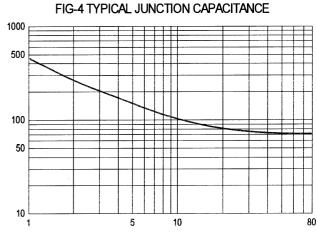


FIG-2 TYPICAL FORWARD CHARACTERISTICS 30 10 10 0.1 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2



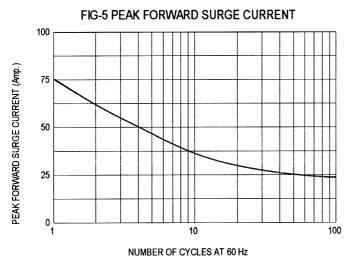


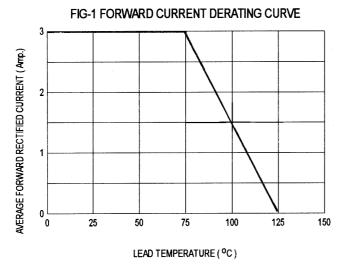


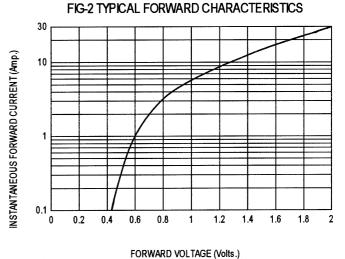


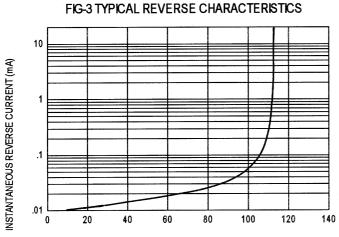
JUNCTION CAPACITANCE (pF)

REVERSE VOLTAGE (Volts.)

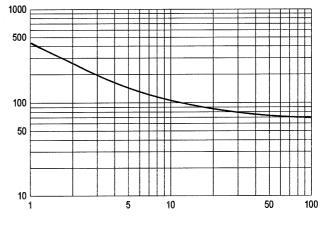




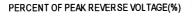


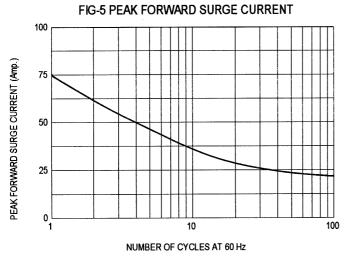






JUNCTION CAPACITANCE (PF)





REVERSE VOLTAGE (Volts.)