

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 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

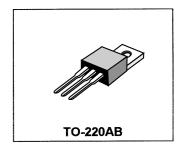
Characteristic	Symbol		Unit			
		70	80	90	100	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	V
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100°C	I _{F(AV)}	5.0 10			Α	
Peak Repetitive Forward Current (Rate V _R ,Square Wave,20kHz)	l _{FM}	10			А	
Non-Repetitive Peak Surge Current (Surge applied at rate load condi- tions halfware,single phase,60Hz)	 FSM	125			Α	
Operating and Storage Junction Temperature Range	T _j , T _{stg}	- 65 to + 125			°C	

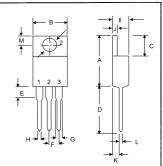
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S10C				Unit
		70	80	90	100	
Maximum Instantaneous Forward Voltage ($I_F = 5.0 \text{ Amp}, T_C = 25$ °C) ($I_F = 5.0 \text{ Amp}, T_C = 100$ °C)	V _F	0.75 0.67		0.85 0.76		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _c = 25 °C) (Rated DC Voltage, T _c = 100 °C)	I _R	5.0 50			mA	

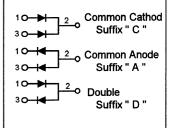
SCHOTTKY BARRIER RECTIFIERS

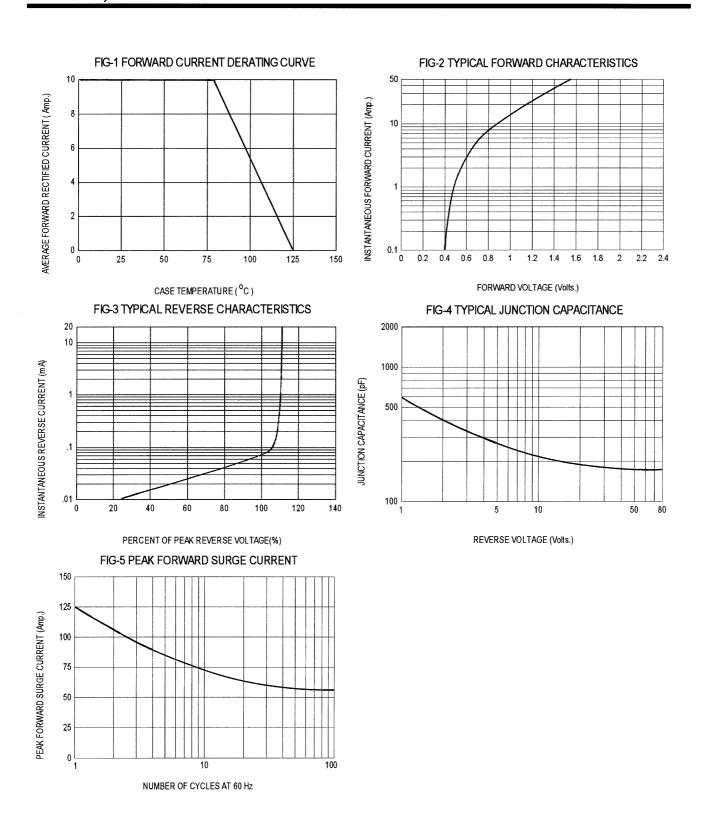
10 AMPERES 70 -- 100 VOLTS

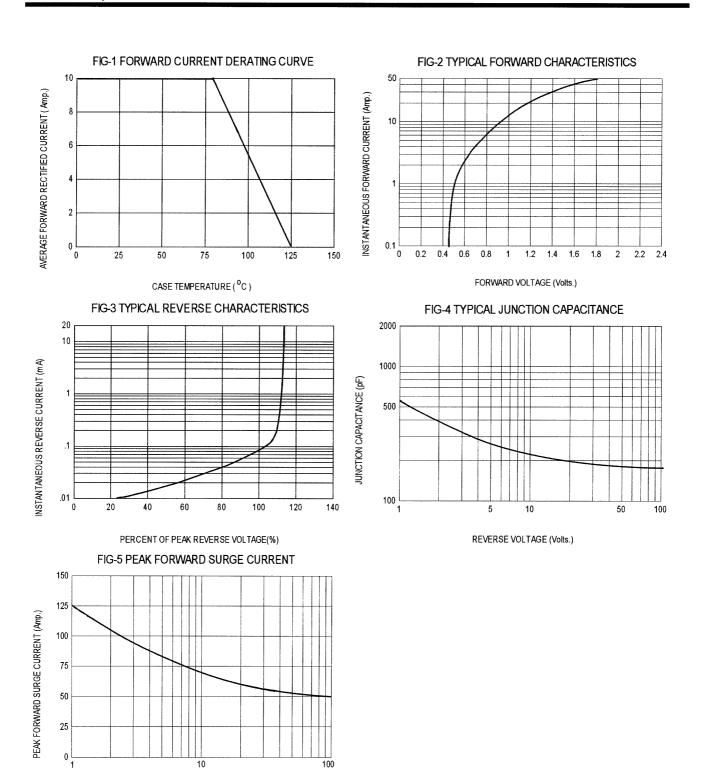




	MILLMETERS			
DIM	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.01	6.52		
D	13.06	14.62		
Ε	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
Н	0.72	0.96		
1	4.22	4.98		
J	1.14	1.36		
K	2.20	2.97		
L	0.33	0.55		
М	2.48	2.98		
0	3.70	3.90		







NUMBER OF CYCLES AT 60 Hz