SCHOTTKY BARRIER RECTIFIERS

10 AMPERES

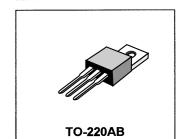
30 -- 60 VOLTS



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

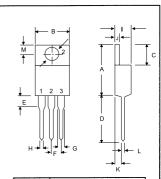


MAXIMUM RATINGS

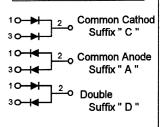
Characteristic	Symbol	S10C						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	٧
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V_R), T_c =100°C	I _{F(AV)}	5 10				Α		
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10				Α		
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			

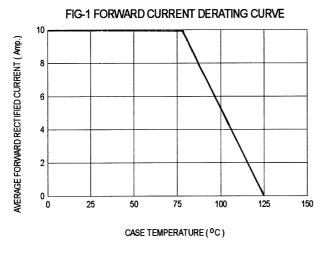
ELECTRICAL CHARACTERISTICS

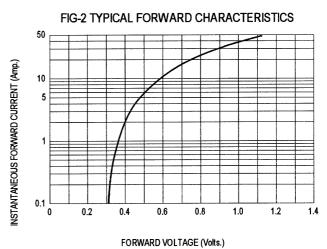
Characteristic	Symbol	S10C						Unit
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage ($I_F = 5.0 \text{ Amp}$, $T_c = 25 ^{\circ}\text{C}$) ($I_F = 5.0 \text{ Amp}$, $T_c = 100 ^{\circ}\text{C}$)	V _F	0.55 0.47		0.65 0.55		V		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 100$ °C)	I _R	5.0 50			mA			

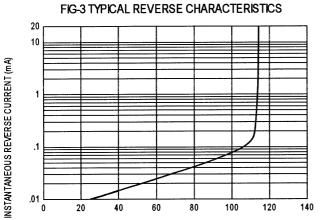


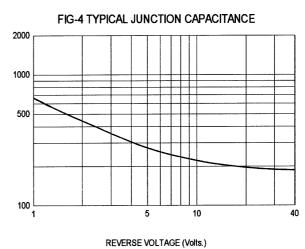
	MILLMETERS					
DIM	MIN	MAX				
Α	14.68	15.32				
В	9.78	10.42				
С	6.01	6.52				
D	13.06	14.62				
Ε	3.57	4.07				
F	2.42	2.66				
G	1.12	1.36				
Н	0.72	0.96				
1	4.22	4.98				
J	1.14	1.36				
K	2.20	2.97				
L	0.33	0.55				
М	2.48	2.98				
0	3.70	3.90				



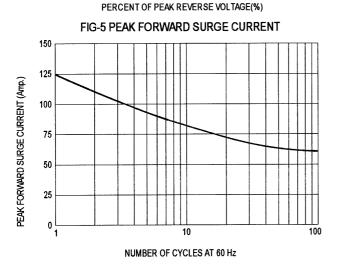


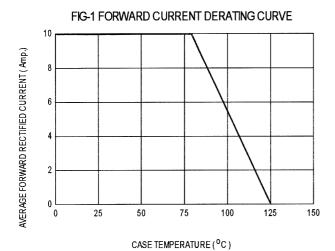


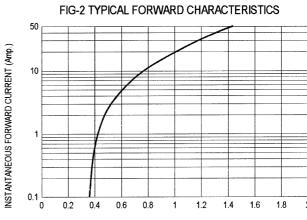


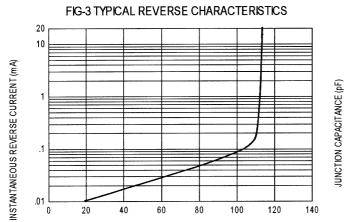


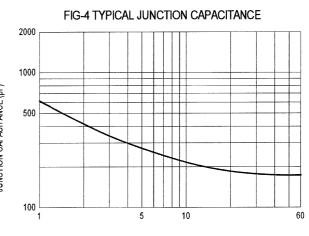
JUNCTION CAPACITANCE (pF)











REVERSE VOLTAGE (Volts.)

FORWARD VOLTAGE (Volts.)

