

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

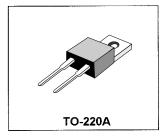
Characteristic	Symbol	S05A					Unit	
•		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	35	40	45	50	60	٧
RMS Reverse Voltage	V _{R(RMS)}	21	24	28	31	35	42	V
Average Rectifier Forward Current	I _{F(AV)}	5.0				Α		
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	FRM	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			

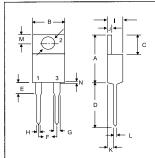
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol		Unit					
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage (I_F =5.0 Amp, T_c = 25 °C) (I_F =5.0 Amp, T_c = 125 °C)	V _F			55 48		1	65 56	٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25$ °C) (Rated DC Voltage, $T_c = 125$ °C)	I _R	1.0 30		mA				

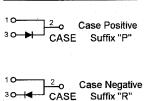
SCHOTTKY BARRIER RECTIFIERS

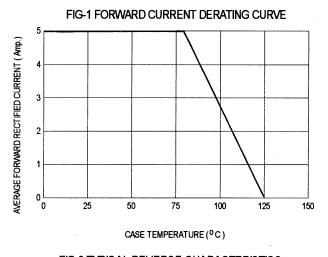
5 AMPERES 30 -- 60 VOLTS

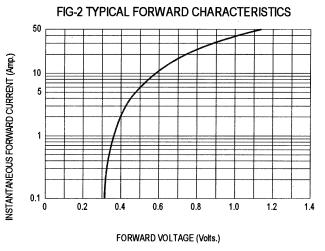


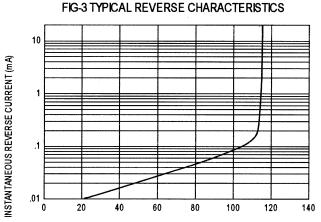


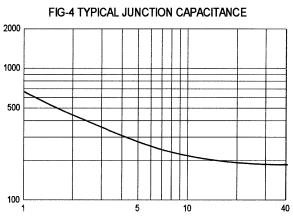
	MILLMETERS				
DIM	MIN	MAX			
Α	14.68	15.32			
В	9.78	10.42			
С	6.01	6.52			
D	13.06	14.62			
E	3.57	4.07			
F	4.83	5.33			
G	1.12	1.36			
Н	0.72	0.96			
1	4.22	4.98			
J	1.14	1.36			
K	2.20	2.97			
L	0.33	0.55			
М	2.48	2.98			
N		1.00			
0	3.70	3.90			











JUNCTION CAPACITANCE (pF)

