

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.

Features

- *Low Switching noise.
- *High Current Capacity
- *Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- *Low Power Loss & High efficiency.
- *150°C Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory
- *Flammability Classification 94V-O
- * Ph free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

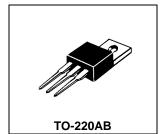
Characteristic	Symbol	S30C45C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45	V
RMS Reverse Voltage	V _{R(RMS)}	32	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100°C	I _{F(AV)}	15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	300	А
Operating and Storage Junction Temperature Range	T_J,T_stg	-65 to +150	$^{\circ}$ C

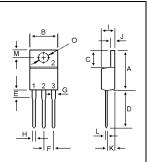
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 15 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.53 0.47	0.55 	>
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		0.07 40	0.5 	mA

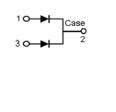
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 45 VOLTS

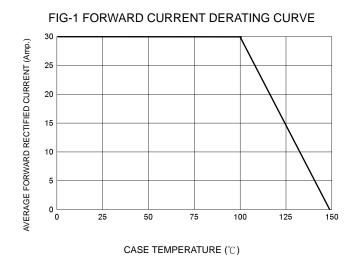


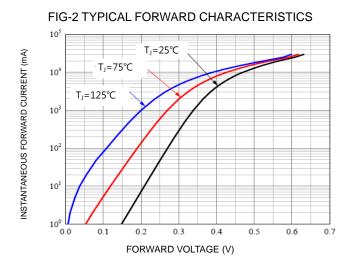


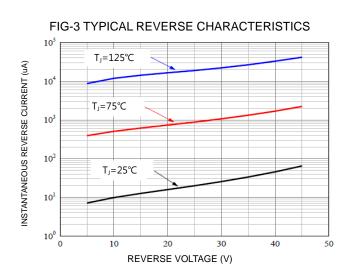
DIM	MILLIMETERS		
ווועו	MIN	MAX	
Α	14.68	16.00	
В	9.78	10.42	
С	5.02	6.60	
D	13.00	14.62	
E	3.10	4.19	
F	2.41	2.67	
G	1.10	1.67	
Н	0.69	1.01	
- 1	3.21	4.98	
J	1.14	1.40	
K	2.20	3.30	
L	0.28	0.61	
M	2.48	3.00	
0	3.50	4.00	

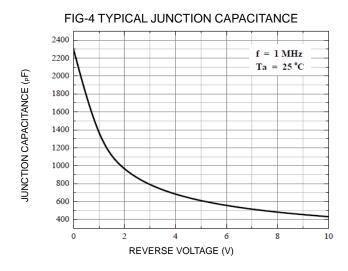


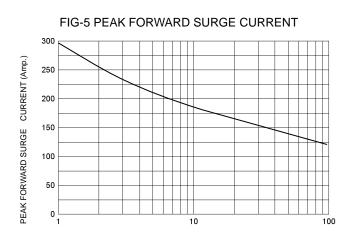












NUMBER OF CYCLES AT 60 Hz



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