

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 Forward Voltage.
- *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
- *ESD: 8KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

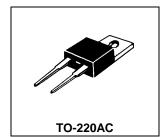
Characteristic	Symbol		Unit					
Characteristic		30	35	40	45	50	60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$\begin{matrix} V_{RRM} \\ V_{RWM} \\ V_{R} \end{matrix}$	30	35	40	45	50	60	V
RMS Reverse Voltage		21	25	28	32	35	42	V
Average Rectifier Forward Current	I _{F(AV)}	15				А		
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	15			А			
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	250			А			
Operating and Storage Junction Temperature Range	T_J , T_{stg}	-65 to +150			$^{\circ}\! \mathbb{C}$			

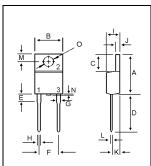
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S15A						Unit
		30	35	40	45	50	60	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25^{\circ}\text{C}$) ($I_F = 15 \text{ Amp } T_C = 100^{\circ}\text{C}$)	V _F	0.55 0.48		0.70 0.61		٧		
Typical Thermal Resistance junction to case	R _{θ j-c}	3.0		.0		°C/w		
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R	0.5 30				mA		

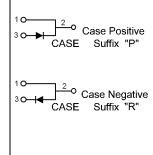
SCHOTTKY BARRIER RECTIFIERS

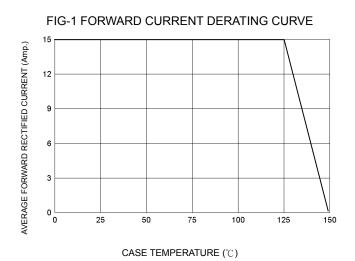
15 AMPERES 30-60 VOLTS

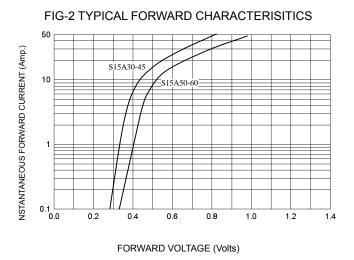


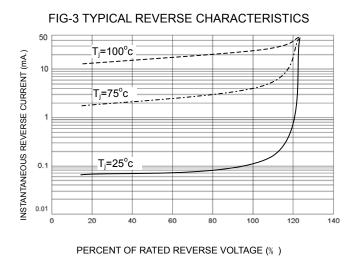


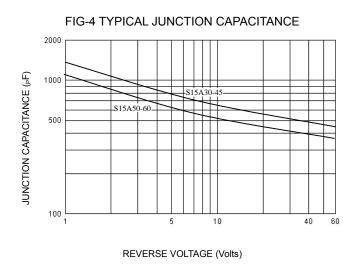
DIM	MILLIMETERS				
DIIVI	MIN	MAX			
Α	14.68	15.32			
В	9.78	10.42			
С	6.02	6.52			
D	13.06	14.62			
E	3.57	4.07			
F	4.84	5.32			
G	1.12	1.36			
Н	0.72	0.96			
- 1	4.22	4.98			
J	1.14	1.38			
K	2.20	2.98			
L	0.33	0.55			
M	2.48	2.98			
N		1.00			
0	3.70	3.90			

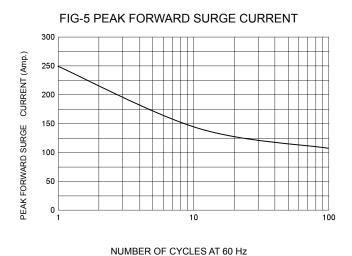














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