

Single Schottky Barrier Power 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
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

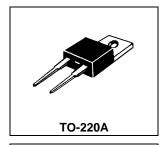
Characteristic	Symbol	SE16A45	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45	٧
RMS Reverse Voltage	V _{R(RMS)}	32	V
Average Rectifier Forward Current	I _{F(AV)}	16	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	16	Α
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	$^{\circ}\!\mathbb{C}$

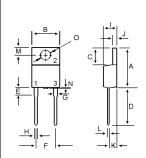
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 16 \text{ Amp } T_C = 25^{\circ}\text{C}$) ($I_F = 16 \text{ Amp } T_C = 125^{\circ}\text{C}$)	V _F		0.52 0.47	0.60	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R		0.05 50	1	mA

SCHOTTKY BARRIER RECTIFIERS

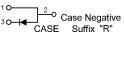
10 AMPERES 45 VOLTS



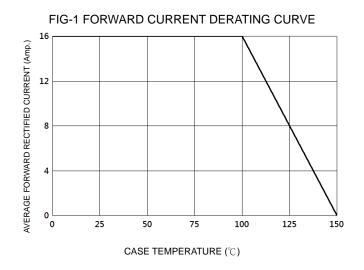


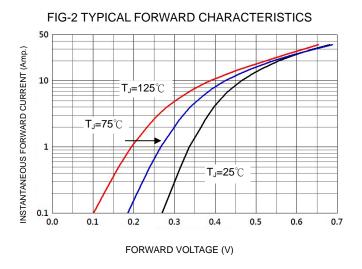
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	16.00	
В	9.78	10.42	
С	5.02	6.60	
D	13.00	14.62	
E	3.10	4.19	
F	4.82	5.34	
G	1.10	1.67	
Н	0.69	1.01	
I	4.22	4.98	
J	1.14	1.40	
K	2.20	3.30	
L	0.28	0.61	
M	2.48	3.00	
N		1.00	
0	3.50	4.00	

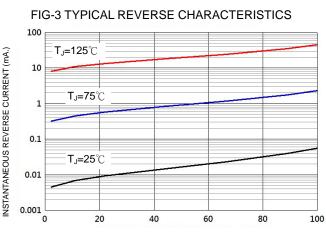


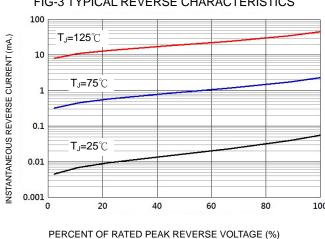


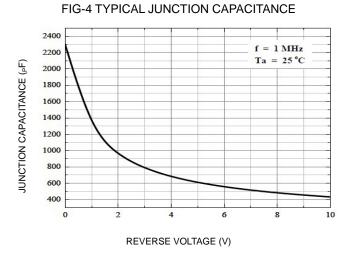


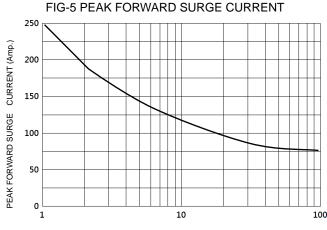












NUMBER OF CYCLES AT 60 Hz



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