

## **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**

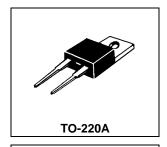
Characteristic	Symbol	SE10A60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	60	٧
RMS Reverse Voltage	V <sub>R(RMS)</sub>	42	V
Average Rectifier Forward Current	I <sub>F(AV)</sub>	10	А
Peak Repetitive Forward Current (Rate V <sub>R</sub> , Square Wave, 20kHz)	I <sub>FM</sub>	10	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I <sub>FSM</sub>	200	А
Operating and Storage Junction Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150	$^{\circ}\!\mathbb{C}$

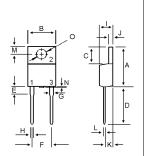
### **ELECTRICAL CHARACTERISTICS**

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ( $I_F = 10 \text{ Amp } T_C = 25^{\circ}\text{C}$ ) ( $I_F = 10 \text{ Amp } T_C = 125^{\circ}\text{C}$ )	V <sub>F</sub>		0.65 0.52	0.70 	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T <sub>C</sub> = 25°C) (Rated DC Voltage, T <sub>C</sub> = 125°C)	I <sub>R</sub>		0.02 20	0.5 	mA

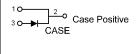
# SCHOTTKY BARRIER RECTIFIERS

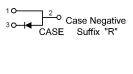
10 AMPERES 60 VOLTS



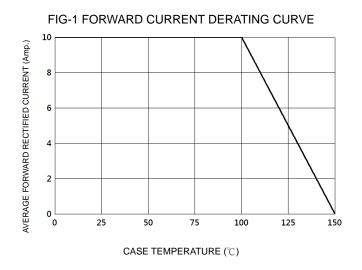


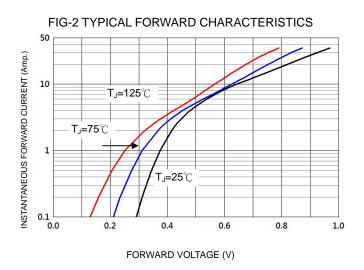
DIM	MILLIMETERS			
DIIVI	MIN	MAX		
Α	14.68	16.00		
В	9.78	10.42		
С	5.02	6.60		
D	13.00	14.62		
Ε	3.10	4.19		
F	4.82	5.34		
G	1.10	1.67		
Н	0.69	1.01		
- 1	4.22	4.98		
J	1.14	1.40		
K	2.20	3.30		
L	0.28	0.61		
M	2.48	3.00		
Ν		1.00		
0	3.50	4.00		

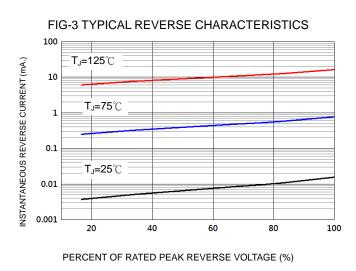


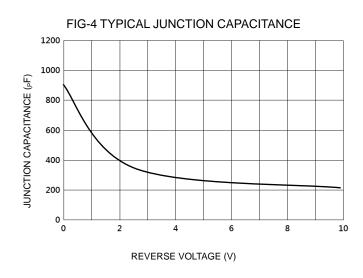


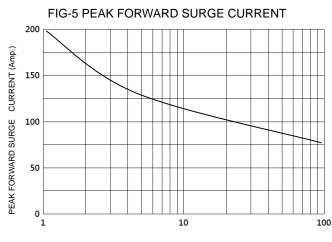














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