

## **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
- \* 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

## \* Guarantee Reverse Avalance. \* Guard-Ring for Stress Protection.

# **MAXIMUM RATINGS**

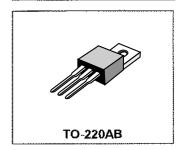
Characteristic	Symbol		Unit					
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	30	35	40	45	50	60	٧
RMS Reverse Voltage	V <sub>R{RMS}</sub>	21	24	28	32	35	42	٧
Average Rectifier Forward Current Total Device (Rated V <sub>R</sub> ),T <sub>c</sub> =100°C	I <sub>F(AV)</sub>	8 16					А	
Peak Repetitive Forward Current ( Rate V <sub>R</sub> , Square Wave, 20kHz )	FRM	16				Α		
Non-Repetitive Peak Surge Current ( Surge applied at rate load condi- tions halfware,single phase,60Hz )	  FSM	150				А		
Operating and Storage Junction Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 65 to + 125				°C		

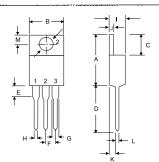
### **ELECTRICAL CHARACTERISTICS**

Characteristic	Symbol	S16C						Unit
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage ( $I_F=8.0 \text{ Amp}$ , $T_C=25 ^{\circ}\text{C}$ ) ( $I_F=8.0 \text{ Amp}$ , $T_C=100 ^{\circ}\text{C}$ )	V <sub>F</sub>	0.55 0.48		0.70 0.57		V		
Maximum Instantaneous Reverse Current (Rated DC Voltage, T <sub>c</sub> = 25 °C) (Rated DC Voltage, T <sub>c</sub> = 100 °C)	R	5.0 50				mA		

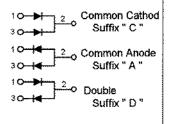
### SCHOTTKY BARRIER **RECTIFIERS**

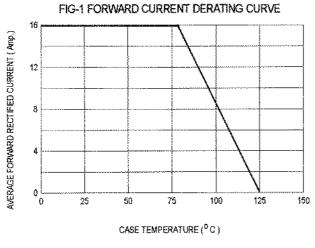
16 AMPERES 30-60 VOLTS

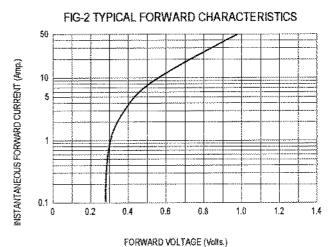


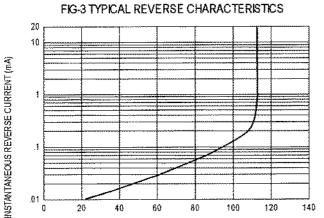


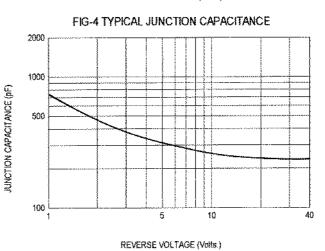
	MILLMETERS					
DIM	MIN	MAX				
Α	14.68	15.32				
8	9.78	10.42				
С	6.01	6.52				
D	13.06	14.62				
뜨	3.57	4.07				
F	2.42	2.66				
G	1.12	1.36				
H	0.72	0.96				
ţ	4.22	4.98				
Ĵ	1.14	1.36				
K	2.20	2.97				
L	0.33	0.55				
M	2.48	2.98				
Ó	3.70	3.90				

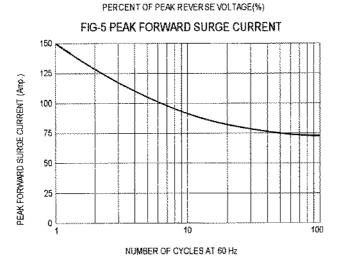


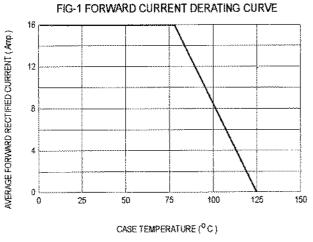


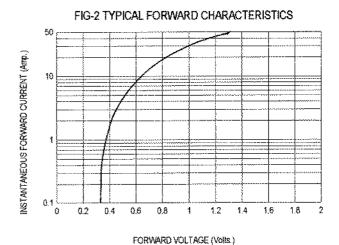


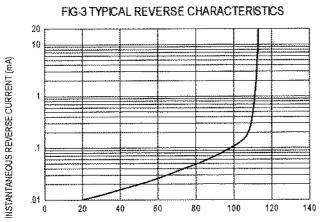


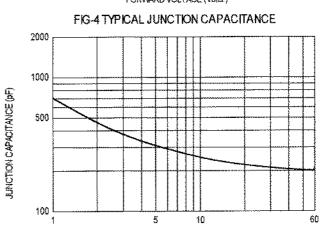






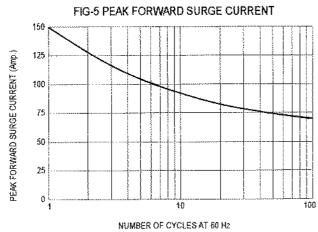












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Datasheets for electronics components.