

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

## **MAXIMUM RATINGS**

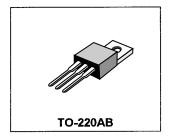
Characteristic	Symbol		Unit			
		70	80	90	100	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	70	80	90	100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	49	56	63	70	V
Average Rectifier Forward Current Total Device (Rated V <sub>R</sub> ),T <sub>c</sub> =100°C	<sup>[</sup> F(AV)	5.0 10			Α	
Peak Repetitive Forward Current (Rate V <sub>R</sub> , Square Wave, 20kHz)	I <sub>FM</sub>	10			Α	
Non-Repetitive Peak Surge Current ( Surge applied at rate load condi- tions halfware,single phase,60Hz )	FSM	125			Α	
Operating and Storage Junction Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 65 to + 125			°C	

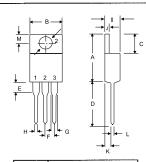
## **ELECTRICAL CHARACTERISTICS**

Characteristic	Symbol	S10C				Unit
		70	80	90	100	
Maximum Instantaneous Forward Voltage ( $I_F = 5.0 \text{ Amp}$ , $T_C = 25 ^{\circ}\text{C}$ ) ( $I_F = 5.0 \text{ Amp}$ , $T_C = 100 ^{\circ}\text{C}$ )	V <sub>F</sub>	0.75 0.67		0.85 0.76		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>	1.0 30			mA	

## SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 70 -- 100 VOLTS





·	MILLMETERS			
DIM	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.01	6.52		
D	13.06	14.62		
Ε	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
Н	0.72	0.96		
- 1	4.22	4.98		
J	1.14	1.36		
K	2.20	2.97		
L	0.33	0.55		
М	2.48	2.98		
0	3.70	3.90		

