

### **Schottky Barrier Rectifiers**

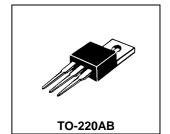
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

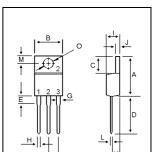
- \* Low Forward Voltage.
- \* Low Switching noise.
- \* High Current Capacity
- \* Guarantee Reverse Avalanche.
- \* Guard-Ring for Stress Protection.
- \* Low Power Loss & High efficiency.
- \* 150 Operating Junction Temperature
- \* Low Stored Charge Majority Carrier Conduction.
- \* Plastic Material used Carries Underwriters Laboratory

Flammability Classification 94V-O

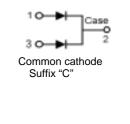
# SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 30-60 VOLTS





DIM	IM MILLIMETERS							
Diivi	MIN	MAX						
Α	14.68	15.32						
В	9.78	10.42						
С	5.02	6.52						
D	13.06	14.62						
E	3.57	4.07						
F	2.42	2.66						
G	1.12	1.36						
Н	0.72	0.96						
I	4.22	4.98						
J	1.14	1.38						
K	2.20	2.98						
L	0.33	0.55						
M	2.48	2.98						
0	3.70	3.90						



#### **MAXIMUM RATINGS**

Characteristic	Symbol	S20C						1111
Characteristic		30CE	35CE	40CE	45CE	50CE	60CE	Unit
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	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V <sub>R</sub> ), T <sub>C</sub> =100 I <sub>F(AV)</sub> 10 20					Α			
Peak Repetitive Forward Current (Rate V <sub>R</sub> , Square Wave, 20kHz)	I <sub>FM</sub>	20						Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)		200					А	
Operating and Storage Junction Temperature Range		-65 to +150						

#### **ELECTRIAL CHARACTERISTICS**

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Characteristic	Symbol	S20C						Unit
Characteristic		30CE	35CE	40CE	45CE	50CE	60CE	Onit
Maximum Instantaneous Forward Voltage ( $I_F = 10 \text{ Amp } T_C = 25$ ) ( $I_F = 10 \text{ Amp } T_C = 125$ )	V <sub>F</sub>	0.57 0.46		0.5	70 57	V		
Maximum Instantaneous Reverse Current ( Rated DC Voltage, $T_C = 25$ ) ( Rated DC Voltage, $T_C = 125$ )	I <sub>R</sub>	0.5 20			mA			

## S20C30CE Thru S20C60CE

