

Schottky Barrier Rectifiers

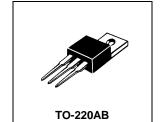
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

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

Flammability Classification 94V-O

SCHOTTKY BARRIER RECTIFIERS

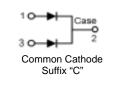
20 AMPERES 120 VOLTS



MAXIMUM RATINGS

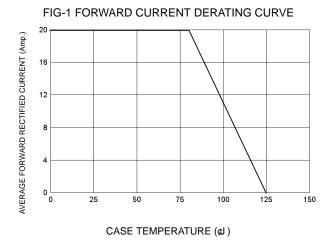
Characteristic	Symbol	S20C120C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	120	V
RMS Reverse Voltage	V _{R(RMS)}	84	V
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100¢J	I _{F(AV)}	10 20	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	200	А
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +125	¢J

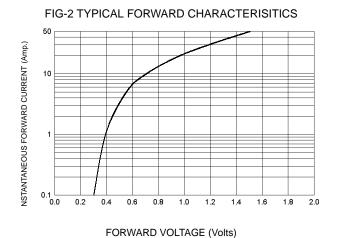
DIM	MILLIMETERS			
DIIVI	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	6.02	6.52		
D	13.06	14.62		
Ε	3.57	4.07		
F	4.84	5.32		
G	1.12	1.36		
Н	0.72	0.96		
- 1	4.22	4.98		
J	1.14	1.38		
K	2.20	2.98		
L	0.33	0.55		
M	2.48	2.98		
0	3.70	3.90		

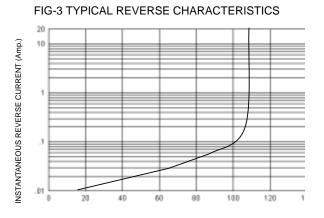


ELECTRIAL CHARACTERISTICS

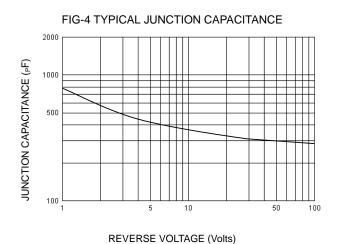
Characteristic	Symbol	S20C120C	Unit
$\begin{aligned} &\text{Maximum Instantaneous Forward Voltage} \\ &\text{(I}_F = &10 \text{ Amp T}_C = 25 \text{ (a)} \text{)} \\ &\text{(I}_F = &10 \text{ Amp T}_C = 125 \text{ (a)} \text{)} \end{aligned}$	V _F	0.85 0.68	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25 d$) (Rated DC Voltage, $T_C = 125 d$)	I _R	0.5 20	mA

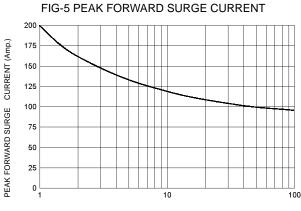






PERCENT OF RATED REVERSE VOLTAGE (\$M)





NUMBER OF CYCLES AT 60 Hz