

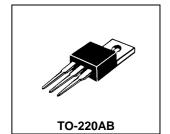
Schottky Barrier Rectifiers

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

10 AMPERES 30-60 VOLTS

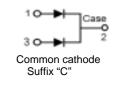


MAXIMUM RATINGS

Characteristic	Symbol	S10C						11!1
		30CE	35CE	40CE	45CE	50CE	60CE	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	35	40	45	50	60	V
RMS Reverse Voltage	V _{R(RMS)}	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V_R), T_C =100	I _{F(AV)}	5.0 10					Α	
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10					Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	125					Α	
Operating and Storage Junction Temperature Range	T_J,T_stg	-65 to +150						

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DIM	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				



ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S10C					Unit
		30CE	35CE	40CE	45CE	50CE	60CE
Maximum Instantaneous Forward Voltage ($I_F = 5.0 \text{ Amp } T_C = 25$) ($I_F = 5.0 \text{ Amp } T_C = 125$)	V _F	0.57 0.46		0.70 0.52		V	
$\label{eq:maximum Instantaneous Reverse Current} \mbox{(Rated DC Voltage, $T_C = 25$)} \mbox{(Rated DC Voltage, $T_C = 125$)}$	I _R	0.5 20					mA

S10C30CE thru S10C60CE

