

Schottky Barrier Rectifiers

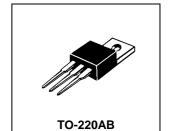
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

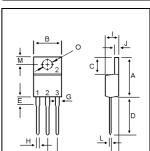
- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 150 Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used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

Flammability Classification 94V-O

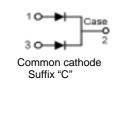
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 30-60 VOLTS





DIM	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			
- 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			



MAXIMUM RATINGS

Characteristic	Symbol	S20C						11
Characteristic		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
verage Rectifier Forward Current Total Device (Rated V_R), T_C =100 $I_{F(AV)}$ 10 20				А				
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20						Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	ad conditions I _{FSM} 200		А					
Operating and Storage Junction Temperature Range		-65 to +150						

ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S20C						11
Characteristic		30CE	35CE	40CE	45CE	50CE	60CE	Unit
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25$) ($I_F = 10 \text{ Amp } T_C = 125$)	V _F		0. 0.	57 46		0. 0.	70 57	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25) (Rated DC Voltage, T _C = 125)	I _R	0.5 20		mA				

S20C30CE Thru S20C60CE

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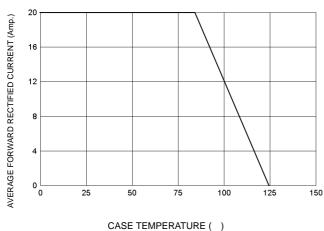
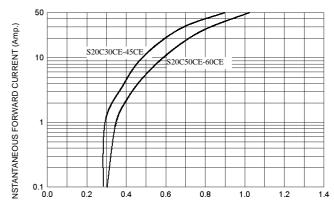
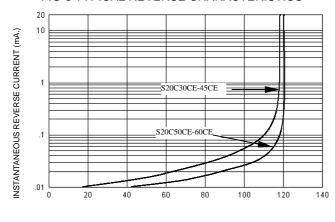


FIG-2 TYPICAL FORWARD CHARACTERISITICS



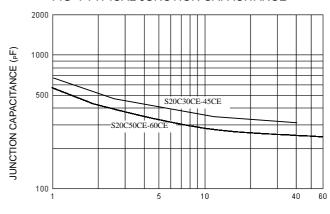
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



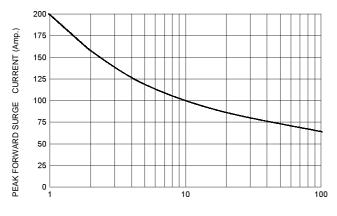
PERCENT OF RATED REVERSE VOLTAGE ($\mbox{\%}$)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz