

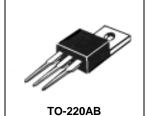
Schottky Barrier Power Rectifiers

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¢J Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

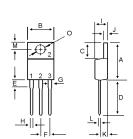
SCHOTTKY BARRIER RECTIFIERS

16 AMPERES 70-100 VOLTS



MAXIMUM RATINGS

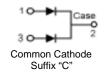
Characteristic	Symbol	S16C				l lm!4
		70CE	80CE	90CE	100CE	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	49	56	63	70	٧
Average Rectifier Forward Current Total Device (Rated V _R),T _C =100¢J	I _{F(AV)}	8.0 16				А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	16				А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150				А
Operating and Storage Junction Temperature Range	T _J , T _{STG}	-65 to +150			¢I	



DIM	MILLIMETERS				
	MIN	MAX			
Α	14.68	15.32			
В	9.78	10.42			
С	5.02	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			
ı	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	S16C				11
		70CE	80CE	90CE	100CE	Unit
Maximum Instantaneous Forward Voltage ($I_F = 8 \text{ Amp } T_C = 25 \text{ d}$) ($I_F = 8 \text{ Amp } T_C = 125 \text{ d}$)	V _F	0.75 0.68		0.80 0.73		٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25ຝ) (Rated DC Voltage, T _C = 125ຝ)	I _R	0.5 20				mA



\$16C70CE Thru \$16C100CE



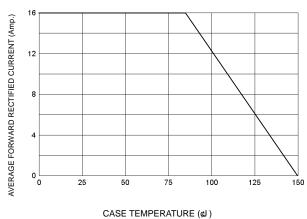
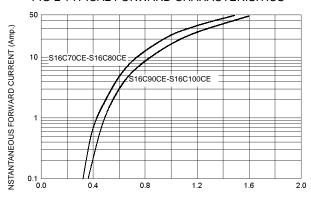
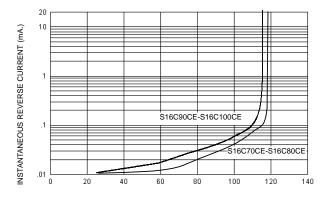


FIG-2 TYPICAL FORWARD CHARACTERISITICS



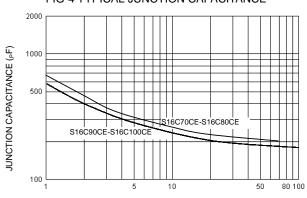
FORWARD VOLTAGE (Volts)

FIG-3 TYPICAL REVERSE CHARACTERISTICS



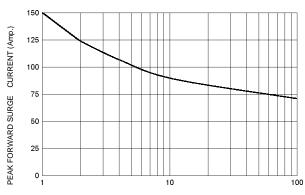
PERCENT OF RATED REVERSE VOLTAGE (4M)

FIG-4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE (Volts)

FIG-5 PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz