

Schottky Barrier Rectifiers

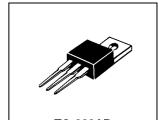
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

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

Flammability Classification 94V-O

SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 90, 100 VOLTS



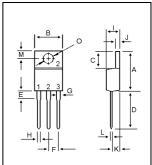
TO-220AB

MAXIMUM RATINGS

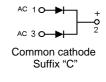
Characteristic	Symbol	S30C90C	S30C100C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	90	100	V
RMS Reverse Voltage	V _{R(RMS)}	63	70	V
Average Rectifier Forward Current Total Device (Rated V _R), T _C =100	I _{F(AV)}	15 30		А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30		А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I _{FSM}	250		А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +125		

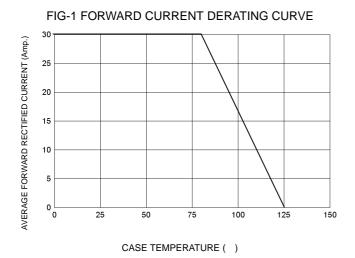
ELECTRIAL CHARACTERISTICS

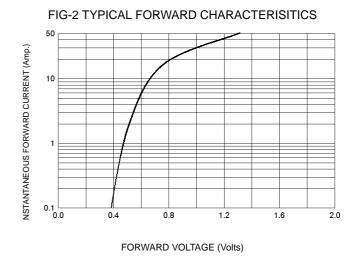
Characteristic	Symbol	S30C90C	S30C100C	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25$) ($I_F = 15 \text{ Amp } T_C = 125$)	V _F	0.85 0.75		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 30		mA

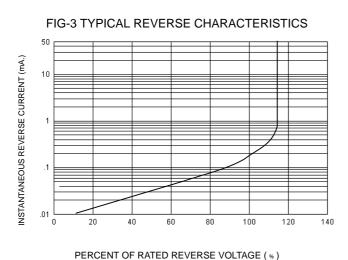


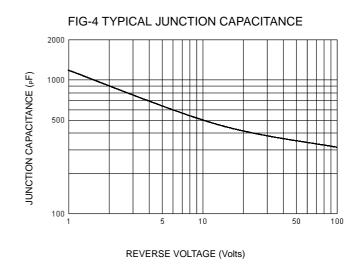
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
С	5.02	6.52	
D	13.06	14.62	
E	3.57	4.07	
F	2.42	2.66	
G	1.12	1.36	
Н	0.72	0.96	
- 1	4.22	4.98	
J	1.14	1.38	
K	2.20	2.98	
L	0.33	0.55	
M	2.48	2.98	
0	3.70	3.90	

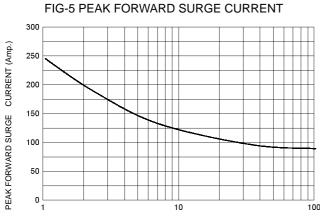












NUMBER OF CYCLES AT 60 Hz



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