

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
- * ESD: 4KV(Min.) Human-Body Model
- * In compliance with EU RoHs 2002/95/EC directives



MAXIMUM RATINGS

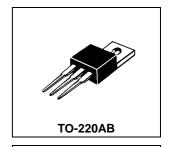
Characteristic	Symbol		Unit			
		70	80	90	100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage	VR _(RMS)	49	56	63	70	V
Average Rectifier Forward Current Total Device (Rated V_R), T_C =125	lo	5 10			Α	
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase,60Hz)	І _{ГЅМ}	125			А	
Operating and Storage Junction Temperature Range	T_J , T_{STG}	-65 to +150				

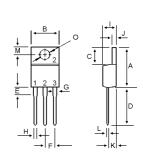
ELECTRIAL CHARACTERISTICS

Characteristic	Symbol	S10C				Unit
		70	80	90	100	Offic
Maximum Instantaneous Forward Voltage (I _F =5.0 Amp)	V _F	0.75		0.85		V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 125$)	I _R	0.5 20				mA
Maximum Thermal Resistance Junction to Case	$R_{ heta Jc}$	4.2			°C/W	
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _P	300		275		₽F

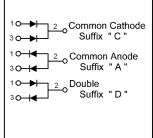
SCHOTTKY BARRIER RECTIFIERS

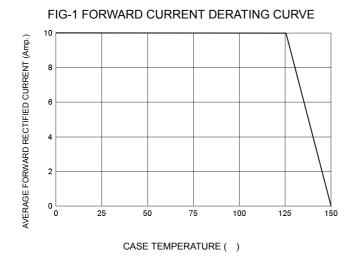
10 AMPERES 70-100 VOLTS

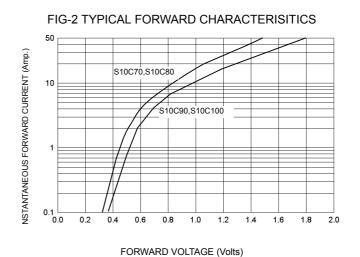


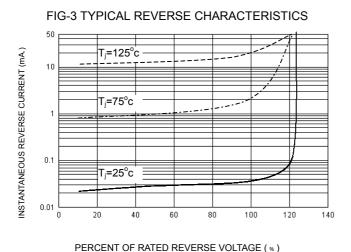


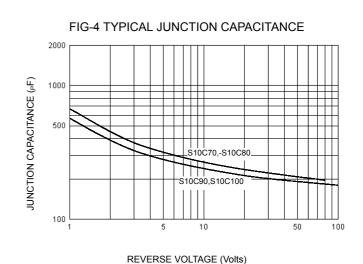
DIM	MILLIMETERS			
Dilvi	MIN	MAX		
Α	14.68	15.32		
В	9.78	10.42		
С	5.02	6.52		
D	13.06	14.62		
Е	3.57	4.07		
F	2.42	2.66		
G	1.12	1.36		
Н	0.72	0.96		
I	4.22	4.98		
J	1.14	1.38		
K	2.20	2.98		
L	0.33	0.55		
M	2.48	2.98		
0	3.70	3.90		

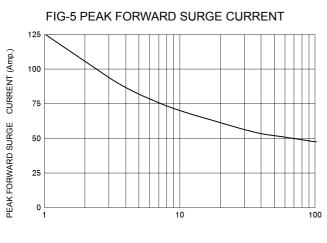












NUMBER OF CYCLES AT 60 Hz



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