

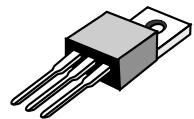
Schottky Barrier Rectifiers

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 Voltag.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * 125 °C Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

**SCHOTTKY BARRIER
RECTIFIERS**

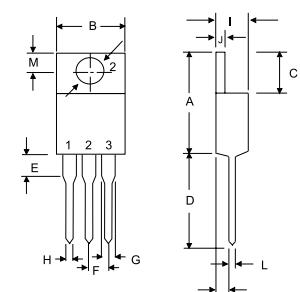
**10 AMPERES
30 -- 60 VOLTS**



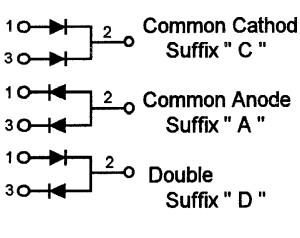
TO-220AB

MAXIMUM RATINGS

Characteristic	Symbol	S10C						Unit
		30	35	40	45	50	60	
Peak Repetitive Reverse Voltage	V_{RRM}							
Working Peak Reverse Voltage	V_{RWM}	30	35	40	45	50	60	V
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	21	25	28	32	35	42	V
Average Rectifier Forward Current Total Device (Rated V_R , $T_c=100^\circ\text{C}$)	$I_{F(AV)}$			5		10		A
Peak Repetitive Forward Current (Rate V_R , Square Wave, 20kHz)	I_{FM}				10			A
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions halfwave, single phase, 60Hz)	I_{FSM}				125			A
Operating and Storage Junction Temperature Range	T_J , T_{stg}				- 65 to + 125			°C



DIM	MILLIMETERS	
	MIN	MAX
A	14.68	15.32
B	9.78	10.42
C	6.01	6.52
D	13.06	14.62
E	3.57	4.07
F	2.42	2.66
G	1.12	1.36
H	0.72	0.96
I	4.22	4.98
J	1.14	1.36
K	2.20	2.97
L	0.33	0.55
M	2.48	2.98
O	3.70	3.90



ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	S10C						Unit
		30	35	40	45	50	60	
Maximum Instantaneous Forward Voltage ($I_F=5.0$ Amp, $T_c = 25^\circ\text{C}$) ($I_F=5.0$ Amp, $T_c = 100^\circ\text{C}$)	V_F							V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25^\circ\text{C}$) (Rated DC Voltage, $T_c = 100^\circ\text{C}$)	I_R				5.0	50		mA