

S10T200C

SCHOTTKY BARRIER

RECTIFIERS

10 AMPERES

200 VOLTS

Dual Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The proprietary barrier technology allows for reliable operation up to 150° C junction temperature. Typical applications are in switching Mode Power Supplies such as adaptors, DC/DC converters, free-wheeling and polarity protection diodes.

Features

- * Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * Guarantee Reverse Avalanche.
- * Guard-Ring for Stress Protection.
- * Low Power Loss & High efficiency.
- * High Operating Junction Temperature
- * Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory
- Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives

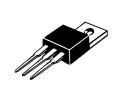


MAXIMUM RATINGS

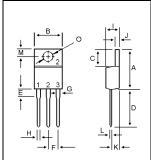
Characteristic	Symbol	S10T200C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current (per diode) Total Device (Rated V_R),	I _{F(AV)}	5 10	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	230	A
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS

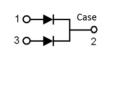
Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 5 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 5 \text{ Amp } T_C = 125^{\circ}C$)	VF		1.05 0.79	1.4 	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_c = 25^{\circ}C$) (Rated DC Voltage, $T_c = 125^{\circ}C$)	I _R		0.002 1.75	0.01	mA



TO-220AB

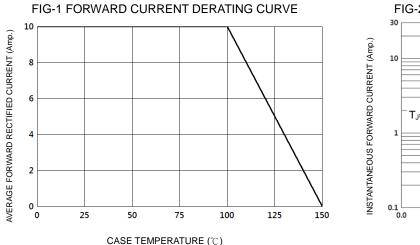


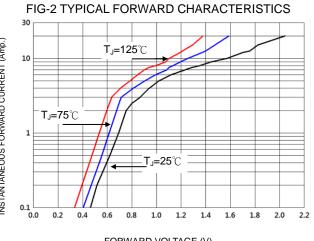
	MILLIMETERS		
DIM	MIN	MAX	
Α	14.68	16.00	
В	9.78	10.42	
С	5.02	6.60	
D	13.00	14.62	
Е	3.10	4.19	
F	2.41	2.67	
G	1.10	1.67	
н	0.69	1.01	
1	4.22	4.98	
J	1.14	1.40	
К	2.20	3.30	
L	0.28	0.61	
М	2.48	3.00	
0	3.50	4.00	





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FORWARD VOLTAGE (V)

FIG-3 TYPICAL REVERSE CHARACTERISTICS

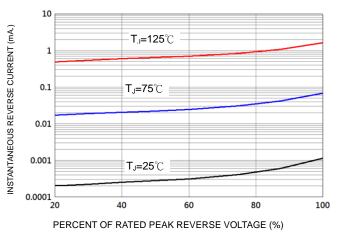


FIG-5 PEAK FORWARD SURGE CURRENT

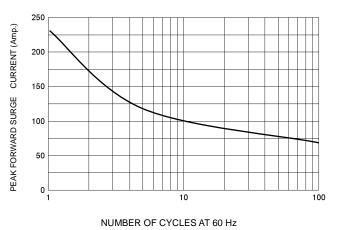


FIG-4 TYPICAL JUNCTION CAPACITANCE

