

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, freewheeling 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

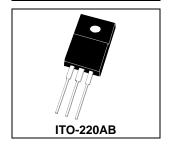
Characteristic	Symbol	S10T200F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	>
RMS Reverse Voltage	V _{R(RMS)}	140	V
Average Rectifier Forward Current (per diode) Total Device (Rated V_R),	I _{F(AV)}	5 10	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	230	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}$

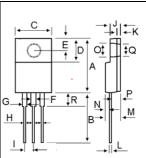
ELECTRICAL CHARACTERISTICS

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

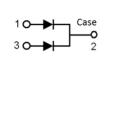
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES **200 VOLTS**

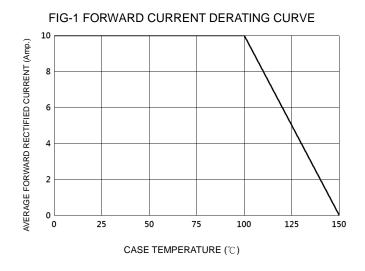




	MILLIMETERS			
DIM	MIN	MAX		
Α	14.80	16.10		
В	12.65	14.40		
С	9.70	10.36		
D	4.60	6.80		
E	2.50	3.50		
F	0.90	1.45		
G	0.90	1.45		
Н	0.50	0.90		
- 1	2.40	2.70		
J	2.34	3.30		
K	0.55	1.30		
L	0.36	0.80		
M	4.20	4.90		
N	1.10	1.80		
0	2.90	3.50		
Р	2.30	3.15		
Q	2.90	3.50		
D	2 80	1 25		







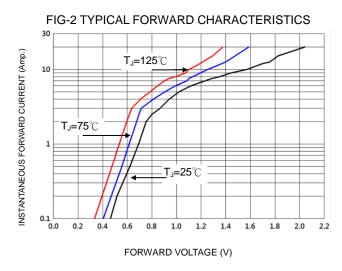


FIG-3 TYPICAL REVERSE CHARACTERISTICS

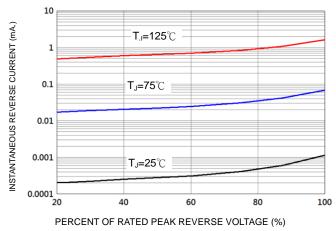


FIG-4 TYPICAL JUNCTION CAPACITANCE

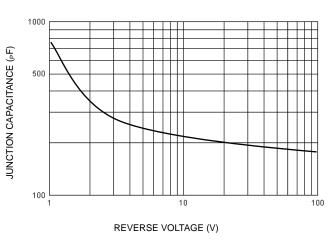


FIG-5 PEAK FORWARD SURGE CURRENT

