

Switchmode 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 application 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.
- *****150° C Operating Junction Temperature
- *Low Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory

Flammability Classification 94V-O

* In compliance with EU RoHs 2002/95/EC directives



* Mounting Torqure: 5 in-lbs.Max.

MAXIMUM RATINGS

Characteristic	Symbol	S10T100FB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	100	>
RMS Reverse Voltage	V _{R(RMS)}	70	V
Average Rectifier Forward Current $$ (per diode) Total Device (Rated V_R),	I _{F(AV)}	5 10	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	150	Α
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}$

THERMAL RESISTANCES

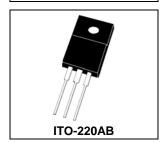
Typical Thermal Resistance junction to case (per device	R _{θj-c}	7	°C/w
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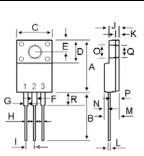
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage (per diode)					
$(I_F = 0.1 \text{ Amp T}_C = 25^{\circ}C)$	V_{F}		0.35		V
$(I_F = 5.0 \text{ Amp } T_C = 25^{\circ}C)$			0.59	0.62	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25°C)	I_R		0.05	0.1	mΑ
(Rated DC Voltage, T _C = 125°C)			30		

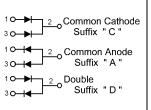
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 100 VOLTS

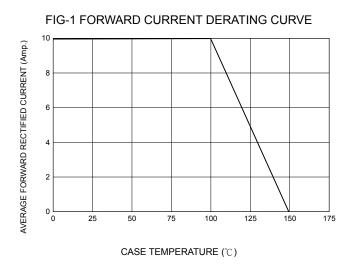


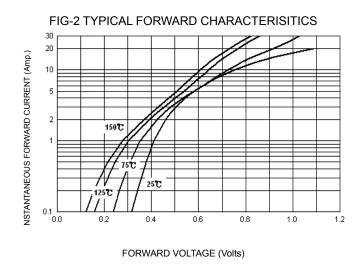


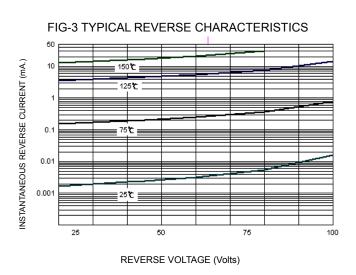
	MILLIMETERS			
DIM	MIN	MAX		
Α	14.90	15.30		
В	13.20	13.50		
С	9.9	10.30		
D	6.50	6.70		
E	2.50	2.80		
F	1.10	1.40		
G	1.10	1.40		
Н	0.50	0.80		
ı	2.30	2.70		
J	3.00	3.30		
K	1.10	1.30		
L	0.50	0.80		
М	4.30	4.70		
N	1.10	1.30		
0	3.20	3.50		
Р	2.50	2.80		
Q	3.20	3.50		
R	3.40	3.80		

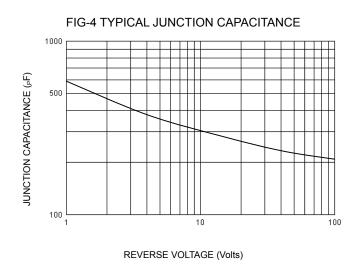


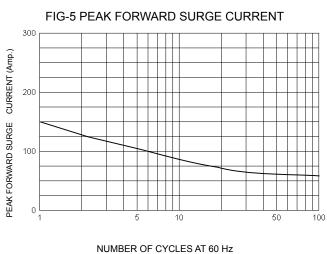
S10T100FB













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