

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	S10T100CB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	100 V	
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	$^{\circ}$ C

THERMAL RESISTANCES

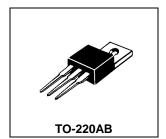
Typical Thermal Resistance junction to case (per device)	R _{θi-c}	7	°C/w
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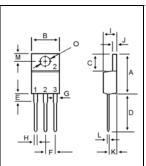
ELECTRICAL CHARACTERISTICS

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	mA
(Rated DC Voltage, T _C = 125°C)			30		

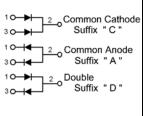
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 100 VOLTS

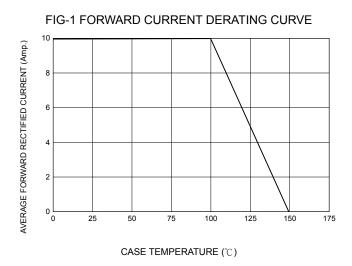


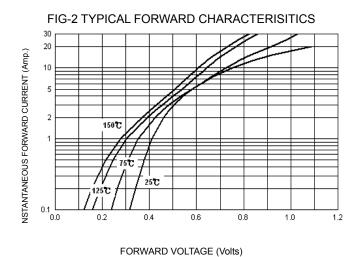


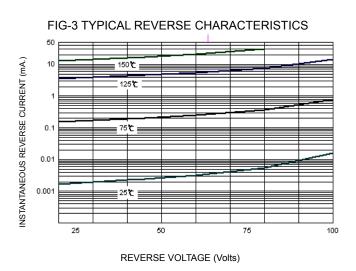
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
С	5.02	6.52	
D	13.06	14.62	
Ε	3.57	4.07	
F	2.42	2.66	
G	1.20	1.47	
Н	0.72	0.96	
- 1	4.22	4.98	
J	1.14	1.38	
K	2.20	2.98	
L	0.33	0.55	
М	2.48	2.98	
0	3.70	3.90	

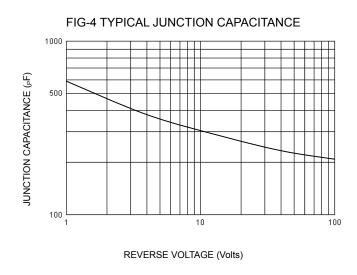


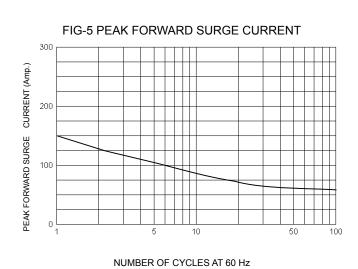
S10T100CB













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