

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
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

Characteristic	Symbol	S10T150C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	150	V
RMS Reverse Voltage	$V_{R(RMS)}$	105	V
Average Rectifier Forward Current $$ (per diode) $$ Total Device (Rated V_R),	I _{F(AV)}	5 10	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	10	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	100	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

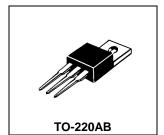
Typical Thermal Resistance junction to case	$R_{ heta jc}$	7.5	°C/w
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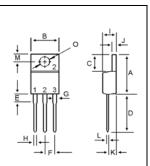
ELECTRICAL CHARACTERISTICS

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		0.79 0.65	0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R		1 0.3	30 	uA mA

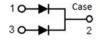
SCHOTTKY BARRIER RECTIFIERS

10 AMPERES 150 VOLTS

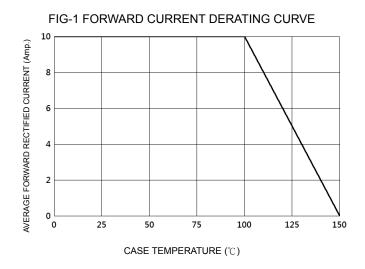


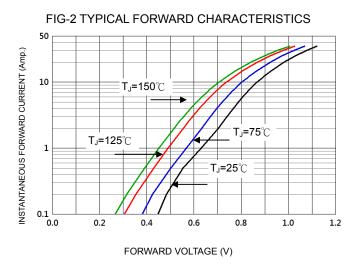


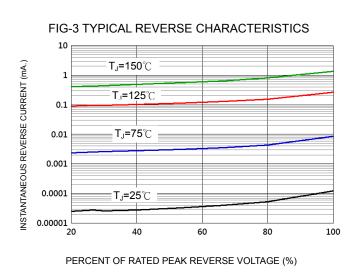
DIM	MILLIMETERS	
וווטן	MIN	MAX
Α	14.68	16.00
В	9.78	10.42
С	5.02	6.60
D	13.00	14.62
E	3.10	4.19
F	2.41	2.67
G	1.10	1.67
Н	0.69	1.01
- 1	4.22	4.98
J	1.14	1.40
K	2.20	3.30
L	0.28	0.61
M	2.48	3.00
0	3.50	4.00

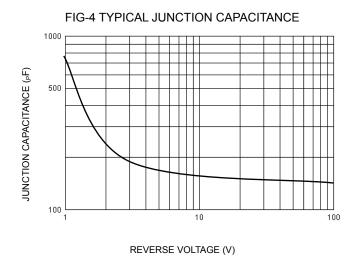


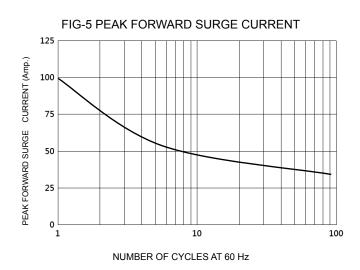














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