

Switchmode Full Plastic 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	S30T150F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	V
RMS Reverse Voltage	V _{R(RMS)}	105	V
Average Rectifier Forward Current $$ (per diode) Total Device (Rated V_R),		15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	270	А
Operating Junction and Storage Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

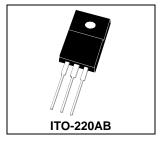
Typical Thermal Resistance junction to case	R _{θic}	5.8	°C/w

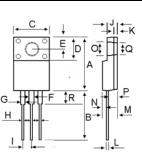
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage (per diode) (I_F =15.0 Amp T_C = 25 $^{\circ}$ C) (I_F =15.0 Amp T_C = 125 $^{\circ}$ C)	V_{F}		0.82 0.70	0.85	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		5 5	50 	uA mA

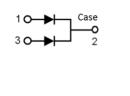
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 150 VOLTS

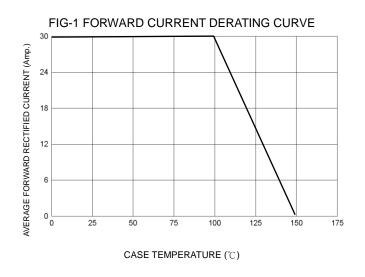


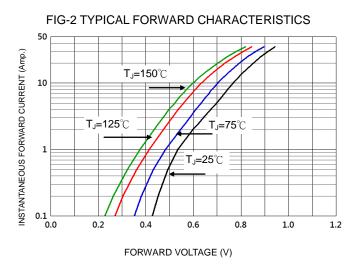


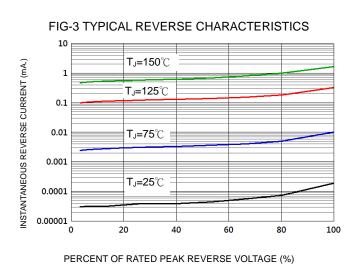
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.80	16.10	
В	12.65	13.80	
С	9.85	10.36	
D	4.60	6.80	
E	2.50	3.50	
F	1.00	1.45	
G	1.00	1.45	
Н	0.30	0.90	
I	2.40	2.70	
J	2.34	3.30	
K	0.55	1.30	
L	0.36	0.80	
M	4.20	4.90	
N	1.10	1.80	
0	2.90	3.50	
Р	2.50	3.15	
Q	2.90	3.50	
R	3.10	4.85	

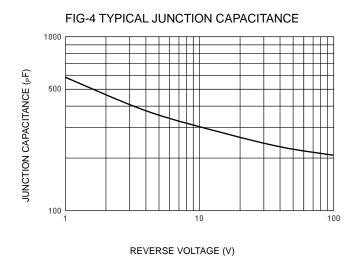


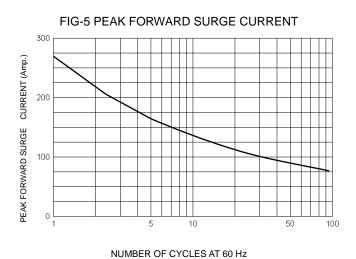














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