

Schottky Barrier 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	S30T150C	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)}	15 30	А
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	30	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	270	А
Operating and Storage Junction Temperature Range	T_J, T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

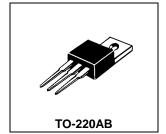
Typical Thermal Resistance junction to case	$R_{\theta jc}$	4.4	°C/w
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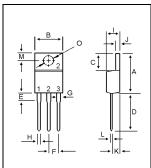
ELECTRICAL CHARACTERISTICS

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

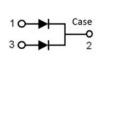
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 150 VOLTS

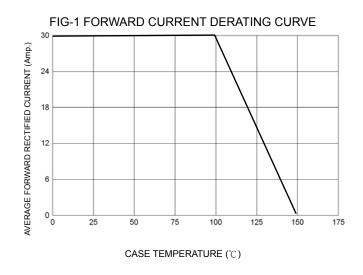


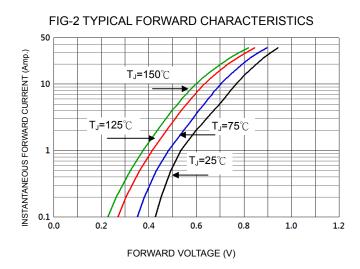


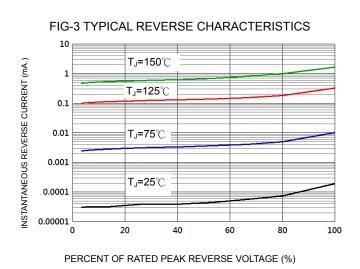
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	16.00	
В	9.78	10.42	
С	5.02	6.60	
D	13.00	14.62	
E	3.10	4.19	
F	2.41	2.67	
G	1.10	1.67	
Н	0.69	1.01	
I	4.22	4.98	
J	1.14	1.40	
K	2.20	3.30	
L	0.28	0.61	
M	2.48	3.00	
0	3.50	4.00	

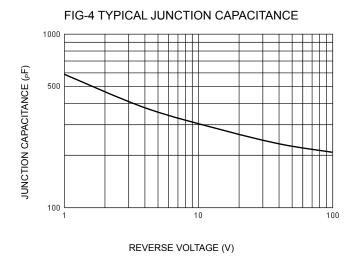


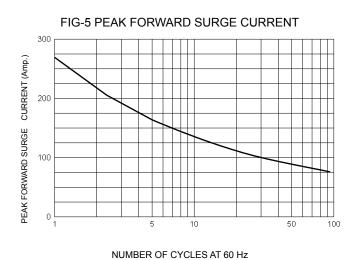














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