

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	S30T200P	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	200	V
RMS Reverse Voltage	V _{R(RMS)}	140	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	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	250	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}$

THERMAL RESISTANCES

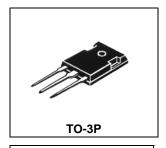
Typical Thermal Resistance junction to case	$R_{ heta jc}$	1.6	°C/w
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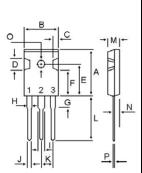
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 15 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 15 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.80 0.67	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	-	10 5	50 	uA mA

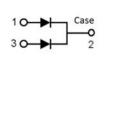
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 200 VOLTS

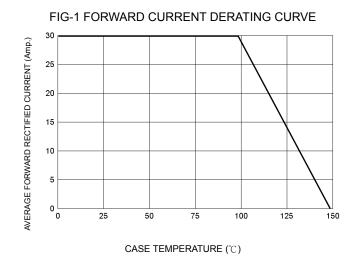


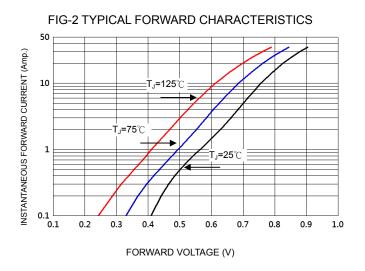


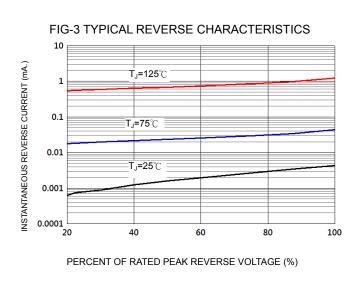
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	20.80	21.80	
В	15.38	16.20	
С	1.90	2.70	
D	5.10	6.10	
Ε	14.81	15.22	
F	11.72	12.84	
G	3.75	4.35	
Н	1.90	2.30	
ı	2.90	3.30	
J	1.00	1.40	
K	5.26	5.66	
L	19.50	20.50	
М	4.68	5.36	
N	2.40	2.80	
0	3.25	3.65	
Р	0.48	0.72	

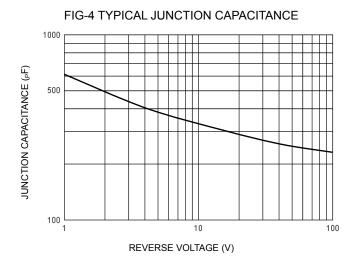


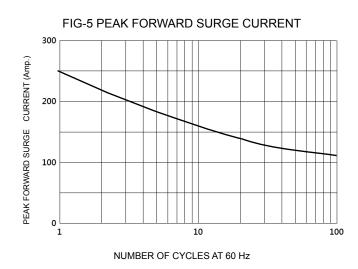














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