

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 applications 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	S20T150F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	150	٧
RMS Reverse Voltage	$V_{R(RMS)}$	105	V
Average Rectifier Forward Current (per diode) Total Device (Rated V _R),	$I_{F(AV)}$	10 20	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	20	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	200	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

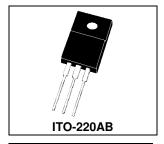
Typical Thermal Resistance junction to case	$R_{\theta jc}$	5.4	°C/w
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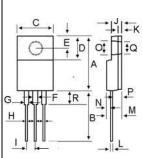
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 10 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 10 \text{ Amp } T_C = 125^{\circ}C$)	V _F		0.80 0.66	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		3 2	10 	uA mA

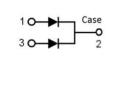
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 150 VOLTS

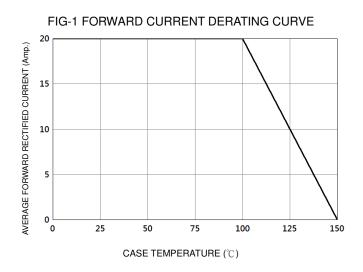


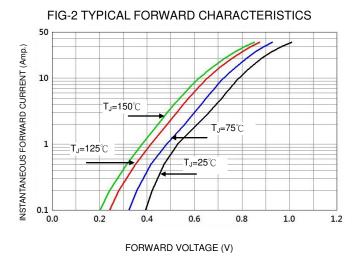


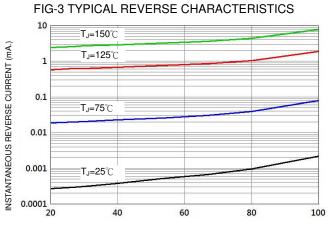
DIM	MILLIMETERS		
DIM	MIN	MAX	
Α	14.80	16.10	
В	12.65	14.40	
С	9.70	10.36	
D	4.60	6.80	
Ε	2.50	3.50	
F	0.90	1.45	
G	0.90	1.45	
Н	0.50	0.90	
- 1	2.40	2.70	
J	2.34	3.30	
K	0.55	1.30	
L	0.36	0.80	
М	4.20	4.90	
Ν	1.10	1.80	
0	2.90	3.50	
Р	2.30	3.15	
Q	2.90	3.50	
R	2.80	4.85	

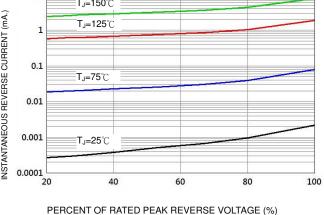


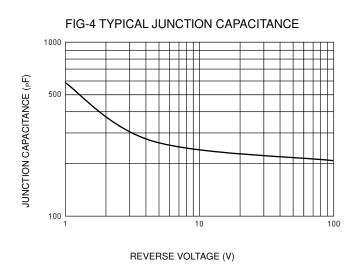


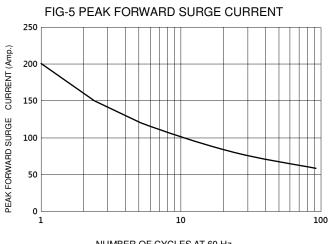














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