

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	S30T150CB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	150	٧
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	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	J

THERMAL RESISTANCES

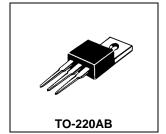
Typical Thermal Resistance junction to case (per device)	$R_{\theta jc}$	4.4	°C/w
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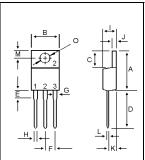
ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage (per diode)					
$(I_F = 15.0 \text{ Amp } T_C = 25^{\circ}C)$	V_{F}		0.80	0.83	V
$(I_F = 15.0 \text{ Amp T}_C = 125^{\circ}C)$			0.67		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R	 	4.0 5.0	50 	uA mA

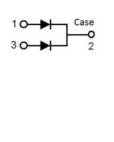
SCHOTTKY BARRIER RECTIFIERS

30 AMPERES 150 VOLTS

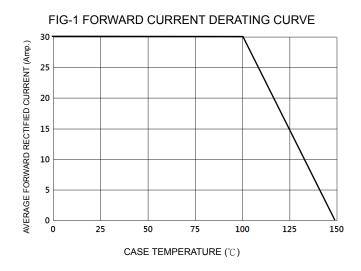


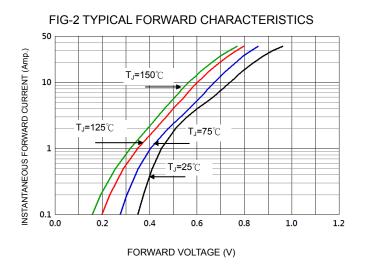


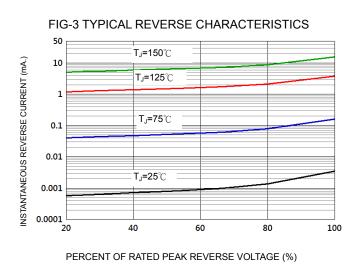
	DIM	MILLIMETERS		
		MIN	MAX	
	Α	14.68	16.00	
	В	9.78	10.42	
	С	5.02	6.60	
	D	13.00	14.62	
	Ε	3.10	4.19	
	F	2.41	2.67	
	G	1.10	1.67	
	Н	0.69	1.01	
	ı	4.22	4.98	
	J	1.14	1.40	
	K	2.20	3.30	
	L	0.28	0.61	
	М	2.48	3.00	
	Ο	3 50	4 00	

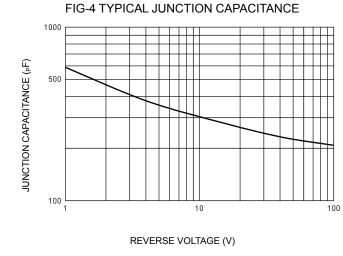


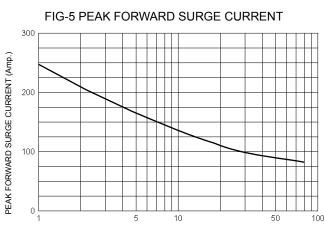














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