

Switchmode Schottky Barrier Power Rectifiers

Using the Schottky Barrier principle with 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, Photovoltaic Solar cell protection, freewheeling and polarity protection diodes.

Features

- * Ultra Low Forward Voltage.
- * Low Switching noise.
- * High Current Capacity
- * 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
- * ESD: 4KV(Min.) Human-Body Model
- * Pb free
- * In compliance with EU RoHs directives



MAXIMUM RATINGS

Characteristic	Symbol	S60M60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current $$ (per diode) Total Device (Rated V_R),	I _{F(AV)}	30 60	Α
Peak Repetitive Forward Current (Rate V _R , Square Wave, 20kHz)	I _{FM}	60	Α
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	350	А
Operating and Storage Junction Temperature Range	T_J , T_stg	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

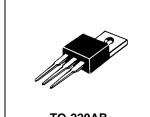
Typical Thermal Resistance junction to case	$R_{\theta jc}$	8.8	°C/w	I
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ELECTRICAL CHARACTERISTICS

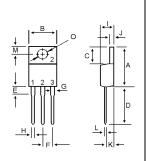
Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage ($I_F = 30 \text{ Amp } T_C = 25^{\circ}C$) ($I_F = 30.\text{Amp } T_C = 125^{\circ}C$)	V _F		0.58 0.60	0.65	٧
Maximum Instantaneous Reverse Current (Rated DC Voltage, T _C = 25℃) (Rated DC Voltage, T _C = 125℃)	I _R		0.12 40	0.30	mA

SCHOTTKY BARRIER RECTIFIERS

60 AMPERES 60 VOLTS



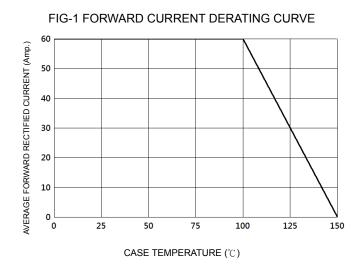
TO-220AB

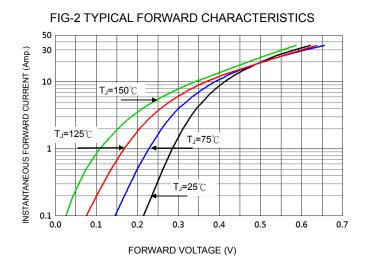


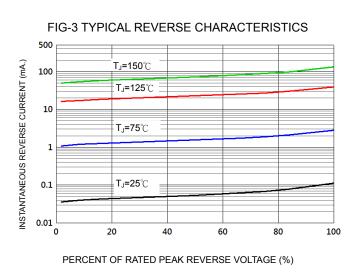
DIM	MILLIMETERS			
DIIVI	MIN	MAX		
Α	14.68	16.00		
В	9.78	10.42		
С	5.02	6.60		
D	13.00	14.62		
E	3.10	4.19		
F	2.41	2.67		
G	1.10	1.67		
Н	0.69	1.01		
1	4.22	4.98		
J	1.14	1.40		
K	2.20	3.30		
L	0.28	0.61		
M	2.48	3.00		
0	3.50	4.00		

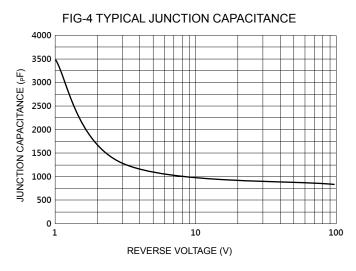


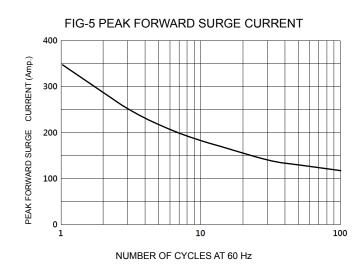














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