

Switchmode Full Plastic Dual Schottky Low V_F Barrier Power Rectifiers

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The properitary barrier technology allows for reliable operation up to 150°C junction temperature. Typical application are in switching Mode Power Supplies such as adaptators, DC/DC convertes,freewheeling and polarity protection diodes.

Features

- *Super 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

*ESD: 4KV(Min.) Human-Body Model



* In compliance with EU RoHs 2002/95/EC directives

MAXIMUM RATINGS

Characteristic	Symbol	SBLF2060CL	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), T_C =100 $^{\circ}$ C	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 halfware, single phase, 60Hz)	I _{FSM}	175	Α
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	$^{\circ}\!\mathbb{C}$

THERMAL RESISTANCES

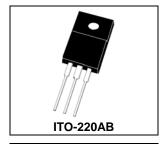
Typical Thermal Resistance junction to case	R _{θ j-c}	3.2	°C/w
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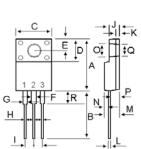
ELECTRICAL CHARACTERISTICS

ELECTRICAL CHARACTERIOTICS					
Characteristic	Symbol	SBLF2060CL		Unit	
Maximum Instantaneous Forward Voltage (per diode)		Min	Тур.	Max.	
(I_F =0.1 Amp T_C = 25 $^{\circ}$ C)	V_{F}		0.26	0.28	V
(I_F =5.0 Amp T_C = 25 $^{\circ}$ C)	VF		0.44	0.49	V
(I _F =10 Amp T _C = 25°C)			0.50	0.60	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25°C)	I_R		0.17	0.25	mA
(Rated DC Voltage, T _C = 100℃)			15	30	

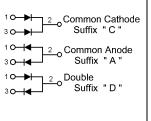
SCHOTTKY BARRIER RECTIFIERS

20 AMPERES 60 VOLTS

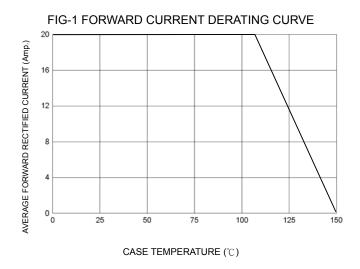


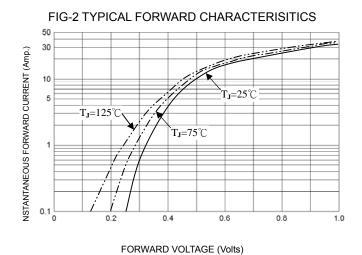


DIM	MILLIMETERS		
וווטו	MIN	MAX	
Α	15.05	15.15	
В	13.35	13.55	
С	10.00	10.10	
D	6.55	6.65	
E	2.65	2.75	
F	1.55	1.65	
G	1.15	1.25	
Н	0.55	0.65	
- 1	2.50	2.60	
J	3.00	3.20	
K	1.10	1.20	
L	0.55	0.65	
M	4.40	4.60	
Ν	1.15	1.25	
0	3.35	3.45	
Р	2.65	2.75	
Q	3.15	3.25	
R	3 60	3 80	

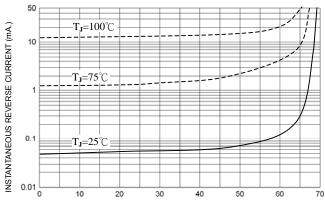


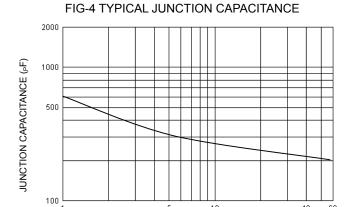
SBLF2060CL









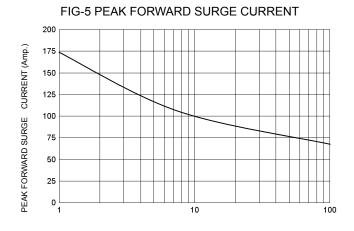


REVERSE VOLTAGE (Volts)



10

40 60



NUMBER OF CYCLES AT 60 Hz



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