

Switchmode Dual Schottky 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

- * 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



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

MAXIMUM RATINGS

Characteristic	Symbol	S20C60CL	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

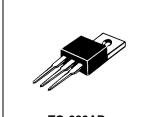
Typical Thermal Resistance junction to case	R _{e i-c}	3.0	°C/w
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ELECTRICAL CHARACTERISTICS

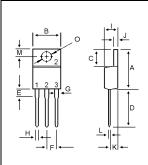
Characteristic	Symbol	S	20C60C	CL	Unit
Maximum Instantaneous Forward Voltage (per diode)		Min	Тур.	Max.	
(I_F =0.1 Amp T_C = 25 $^{\circ}$ C)	V		0.22	0.26	V
(I_F =5.0 Amp T_C = 25 $^{\circ}$ C)	V_{F}		0.41	0.46	V
(I _F =10 Amp T _C = 25°C)			0.51	0.57	
Maximum Instantaneous Reverse Current					
(Rated DC Voltage, T _C = 25°C)	I_R		0.15	0.2	mA
(Rated DC Voltage, T _C = 100°C)			15	30	

SCHOTTKY BARRIER RECTIFIERS

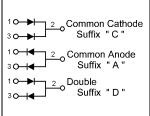
20 AMPERES 60 VOLTS



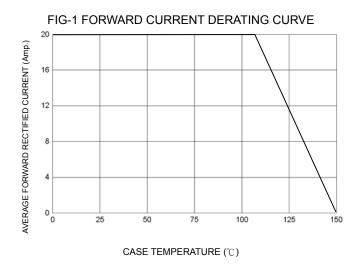
TO-220AB

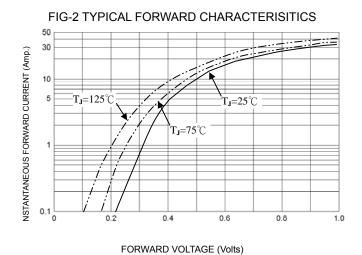


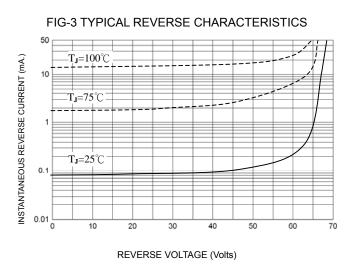
DIM	MILLIMETERS		
DIIVI	MIN	MAX	
Α	14.68	15.32	
В	9.78	10.42	
С	5.02	6.52	
D	13.06	14.62	
E	3.57	4.07	
F	2.42	2.66	
G	1.12	1.36	
Н	0.72	0.96	
1	4.22	4.98	
J	1.14	1.38	
K	2.20	2.98	
L	0.33	0.55	
М	2.48	2.98	
0	3.70	3.90	

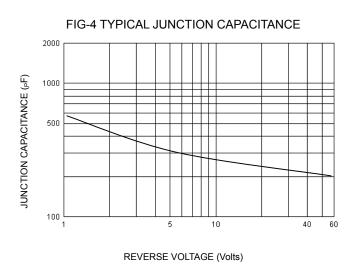


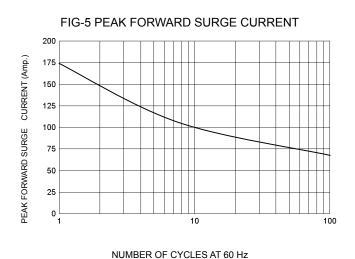
S20C60CL













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