MOSPEC

S60D60CL

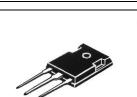
Switchmode Schottky Barrier Power Rectifiers

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 applications are in switching Mode Power Supplies such as adapters, Photovoltaic Solar cell protection, free- wheeling and polarity protection diodes.

Features

- * Ultra Low Forward Voltage.
- *Low Switching noise.
- * High Current Capacity
- $\ast \, {\rm Low} \, {\rm Power} \, {\rm Loss} \, \& \, {\rm High} \, {\rm efficiency}.$
- *150°C Operating Junction Temperature
- $\ast\, {\rm Low}$ Stored Charge Majority Carrier Conduction.
- * Plastic Material used Carries Underwriters Laboratory
- * Flammability Classification 94V-O
- * Pb free
- * In compliance with EU RoHs directives

RoH³



SCHOTTKY BARRIER

RECTIFIERS

60 AMPERES

60VOLTS

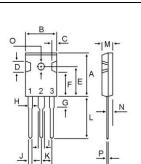


MAXIMUM RATINGS

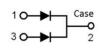
Characteristic	Symbol	S60D60CL	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	60	V
RMS Reverse Voltage	V _{R(RMS)}	42	V
Average Rectifier Forward Current (per diode) Total Device (Rated V _R),	I _{F(AV)}	30 60	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase, 60Hz)	I _{FSM}	350	А
Operating and Storage Junction Temperature Range	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min.	Тур.	Max.	Unit
Maximum Instantaneous Forward Voltage (per diode) (I_F =30 Amp T _C = 25°C) (I_F =30.Amp T _C = 125°C)	VF		0.57 0.56	0.65	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25^{\circ}C$) (Rated DC Voltage, $T_C = 125^{\circ}C$)	I _R		0.13 50	0.30	mA



DIM	MILLIMETERS			
2	MIN	MAX		
Α	20.80	21.80		
В	15.38	16.20		
С	1.90	2.70		
D	5.10	6.10		
E	14.50	15.50		
F	11.20	13.20		
G	3.75	4.35		
н	1.90	2.30		
1	2.90	3.30		
J	1.00	1.40		
К	5.26	5.66		
L	19.50	20.50		
М	4.68	5.36		
Ν	2.30	2.60		
0	3.45	3.85		
Р	0.48	0.72		





S60D60CL

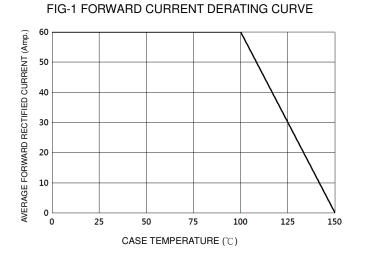


FIG-2 TYPICAL FORWARD CHARACTERISTICS

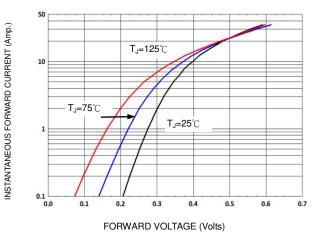


FIG-3 TYPICAL REVERSE CHARACTERISTICS

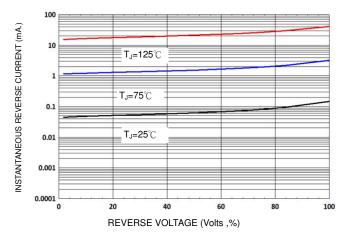
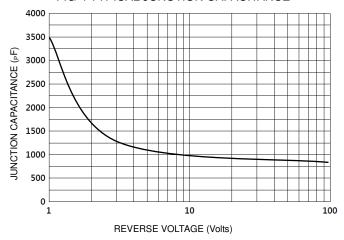
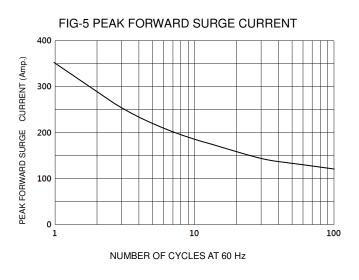


FIG-4 TYPICAL JUNCTION CAPACITANCE





RA-D-0744 Ver.C



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