



SSL54BF THRU SSL510BF

Surface Mount Schottky Rectifier

Features

- Guardring for overvoltage protection
- Low forward voltage drop, Low power losses
- High forward surge capability
- High frequency operation
- Solder dip 260 °C max. 10 s, per JESD 22-B106

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

Package: SMBF

Molding compound meets UL 94 V-0 flammability rating L

		UNIT	SSL54BF	SSL56BF	SSL510BF
Device marking code			SSL54BF	SSL56BF	SSL510BF
Repetitive Peak Reverse Voltage	V_{RRM}	V	40	60	100
Average Rectified Output Current @60Hz sine wave, Resistance load, T_a (FIG.1)	I_o	A	5.0		
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, $T_a=25$	I_{FSM}	A	100		
Storage Temperature	T_{stg}		-55 ~+150		
Junction Temperature	T_j		-55 ~+125	-55 ~+150	

Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL54BF	SSL56BF	SSL510BF
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=5.0A$	0.45	0.5	0.7
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	mA	$T_a=25$	0.5		0.1
			$T_a=100$	10	5	1N" 0EP

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Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SSL54BF	SSL56BF	SSL510BF
Typical Thermal Resistance ⁽¹⁾	R J-A	/W		58	
	R J-L			20	
	R J-C			15	

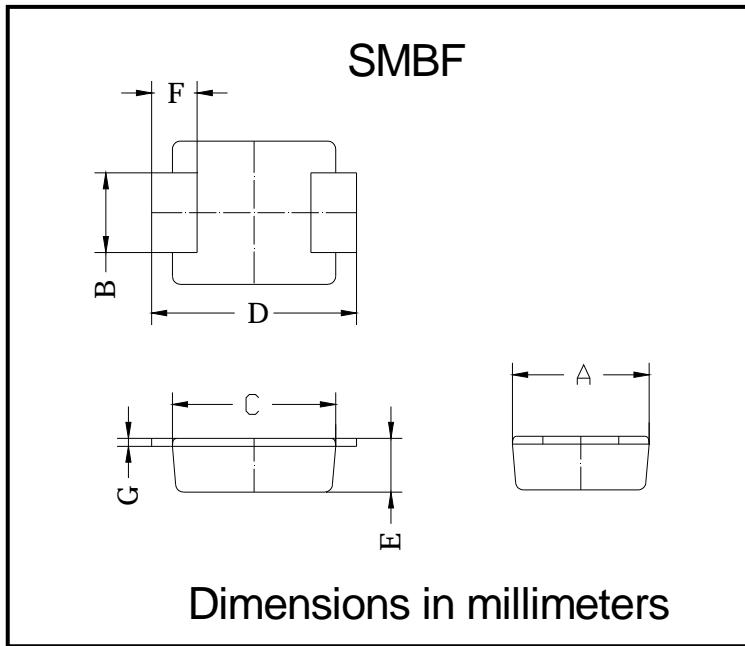
Note:

(1) T T15 L



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Outline Dimensions



SMBF		
Dim	Min	Max
A	3.40	3.80
B	1.90	2.10
C	4.15	4.45
D	5.10	5.60
E	1.05	1.55
F	0.70	1.35
G	0.15	0.25

Suggested pad layout

Dim	Milimeters
P1	6.20
P2	2.40
Q1	



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