



# 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  
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		UNIT	SSL54BF	SSL56BF	SSL510BF
Device marking code			<b>SSL54BF</b>	<b>SSL56BF</b>	<b>SSL510BF</b>
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 <sup>(1)</sup>	R J-A	/W	58		
	R J-L		20		
	R J-C		15		

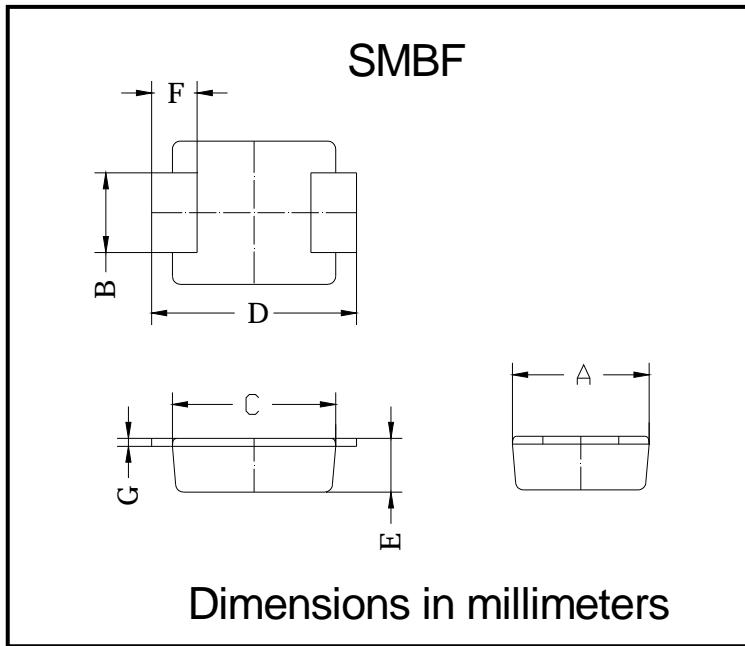
Note:

(1) .0  $\text{AE}$



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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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