

/ Revised record

A	2018-1				
B	2019-5-11	1 4 6 7	,		
C	2022-1-4	2/3	Cj 180 600 R0JA 60 改为 45; 更新曲线图 Fig.1 Forward Current Derating Curve(90 改到 125℃)IR 25℃ 0.1 改为 1, 增加 100 IR 		

/ Descriptions

100V 5.0A SMBF

Surface Mount Schottky Barrier Rectifier, Reverse Voltage:100V,Forward Current:5.0A,SMBF thin package.

/ Features

Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications,Halogen free product.

/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.

Note:

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 2.0 X2.0" (5 X 5 cm) copper pad areas.

参数 Parameter	参数符号 Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Max Instantaneous Forward Voltage	V_F	$I_F=5.0A$	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^{\circ}C$	1.0	mA

Fig 2 Typical Diverse Characteristics

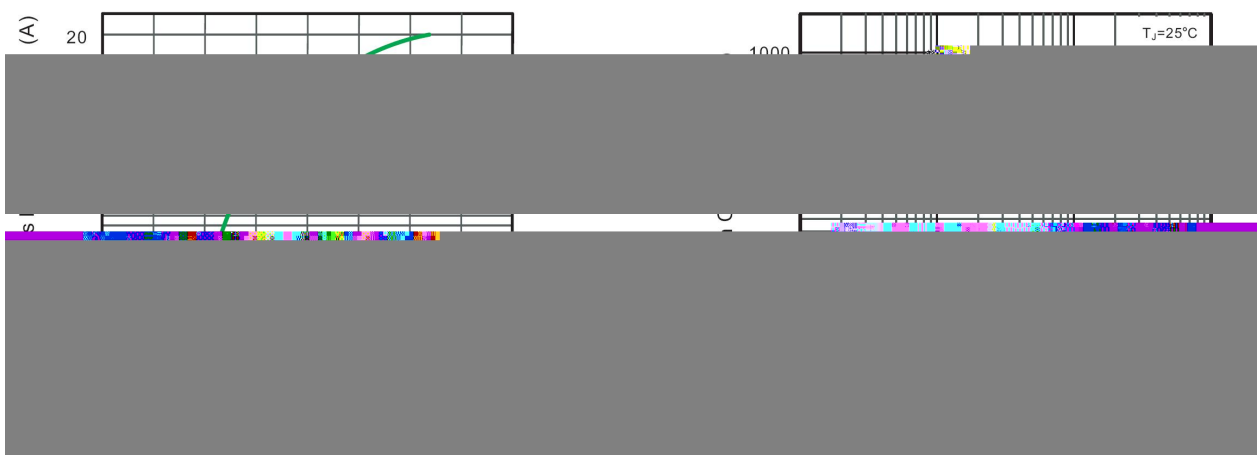
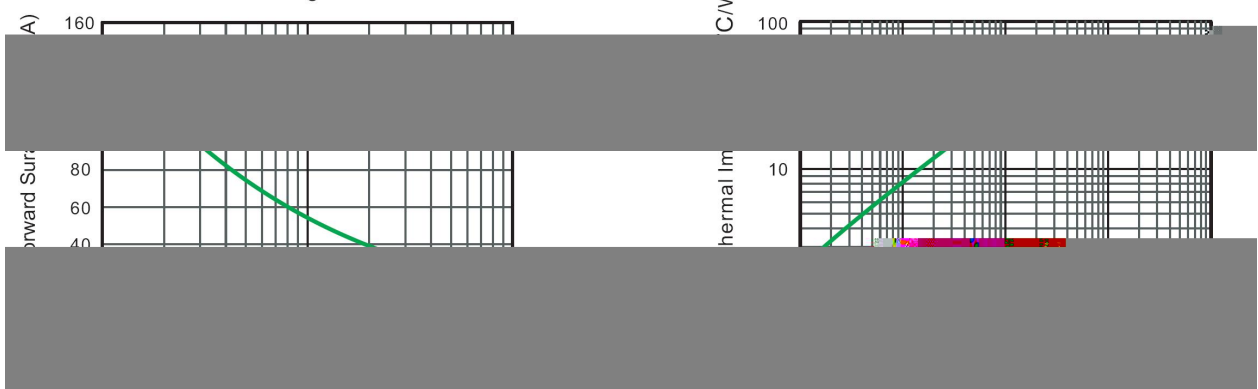


Fig.6- Typical Transient Thermal Impedance





/ Package Dimensions

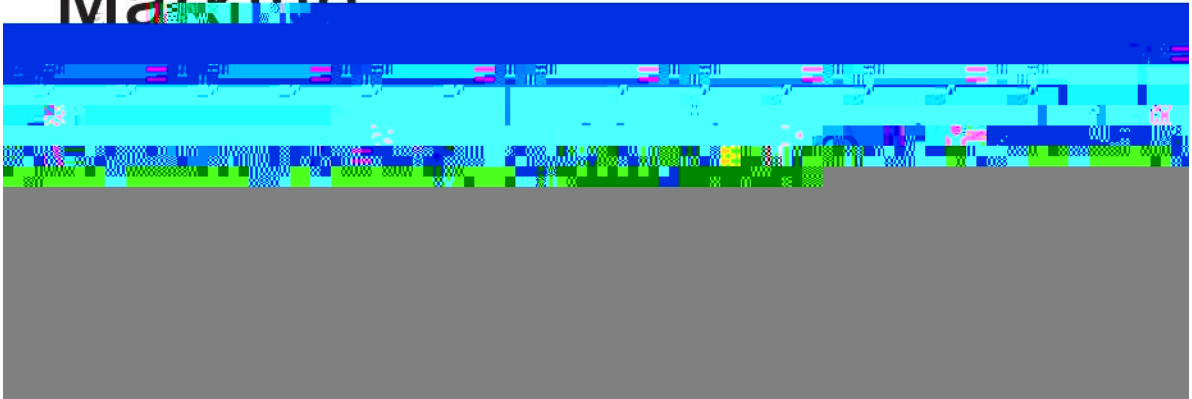
SMBF



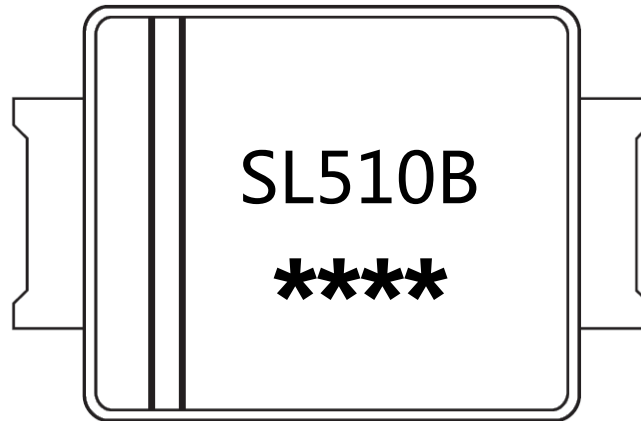


/ Marking Instructions

Marking



/ Marking Instructions



说明：

SL510B： 为型号代码

****： 为生产批号追溯码，第 1 个*为年月代码，后面 3 个*为当月小批号代码

Note:

SL510B： Product Type Code

****： Lot No. Code , The 1st * means:YM Code , The last 3 * means:little Lot No Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | |
|---|---------|-----------|--|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | 2 | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C	10±1 sec.	Temp.:260±5°C	Time:10±1 sec
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/ Packaging SPEC.

/ REEL

Package Type	_____	Units	_____	Dimension	_____	(unit mm ³)
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