

### 描述 / Descriptions

表面贴装肖特基二极管，反向电压：100V，正向电流：2.0A，薄型 SMBF 封装。  
Surface Mount Schottky Barrier Rectifier, Reverse Voltage:100V,Forward Current:2.0A,SMBF thin package.

### 特征 / Features

低功耗，高效率，浪涌电流大，适用于低压，高频和极性保护，适用于表面贴装。无卤产品。  
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.

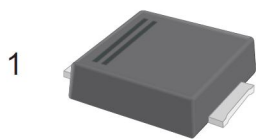
### 用途 / Applications

一般用途。  
General purpose.

### 内部等效电路 / Equivalent Circuit



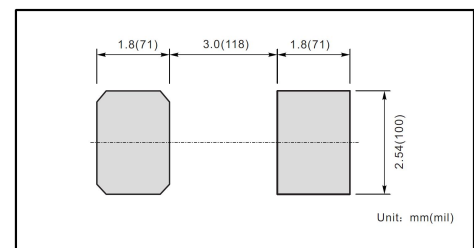
### 引脚排列 / Pinning



2

PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



### 印章代码 / Marking

见印章说明。See Marking Instructions.

**极限参数 / Absolute Maximum Ratings(Ta=25°C)**

参数 Parameter	参数符号 Symbol	数值 Rating	单位 Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Maximum RMS voltage	$V_{RMS}$	70	V
Maximum DC Blocking Voltage	$V_{DC}$	100	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50	A
Typical Junction Capacitance <sup>1)</sup>	$C_j$	110	pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	75	°C/W
Operating Junction Temperature Range	$T_j$	-55~+150	°C
Storage Temperature Range	$T_{stg}$	-55~+150	°C

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.

**电性能参数 / Electrical Characteristics(Ta=25°C)**

参数 Parameter	参数符号 Symbol	测试条件 Test condition	数值 Rating	单位 Unit
Max Instantaneous Forward Voltage	$V_F$	$I_F=2.0A$	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	$I_R$	$T_a=25^\circ C$ $T_a=100^\circ C$	0.3 3	mA

电参数曲线图 / Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

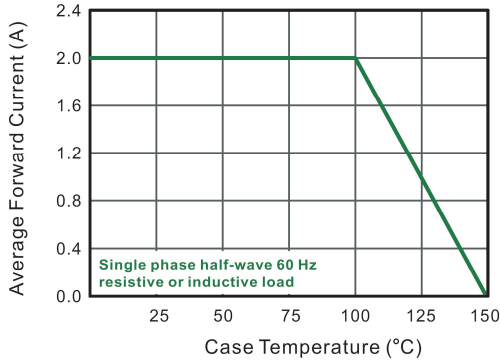


Fig.2 Typical Reverse Characteristics

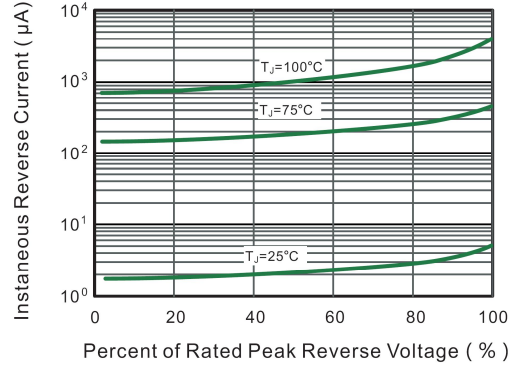


Fig.3 Typical Forward Characteristic

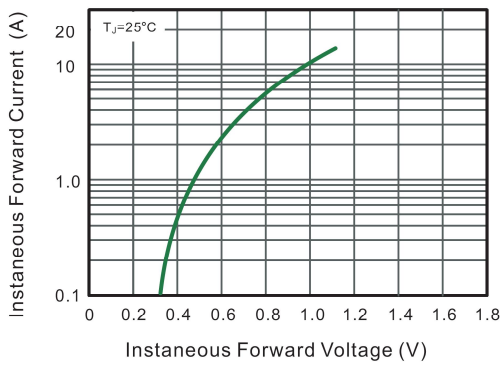


Fig.4 Typical Junction Capacitance

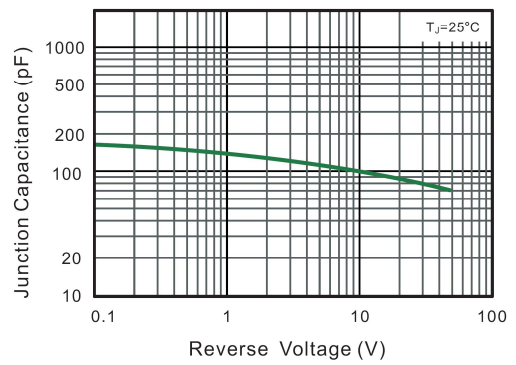


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

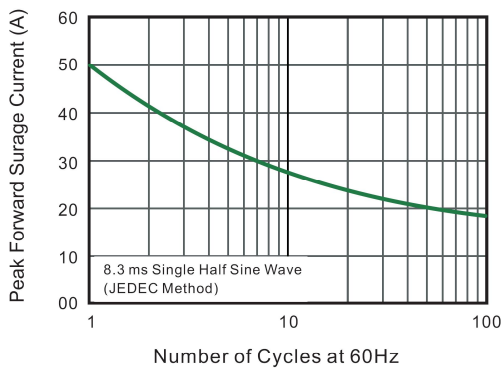
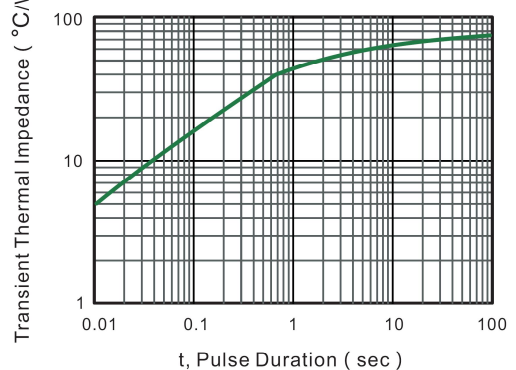
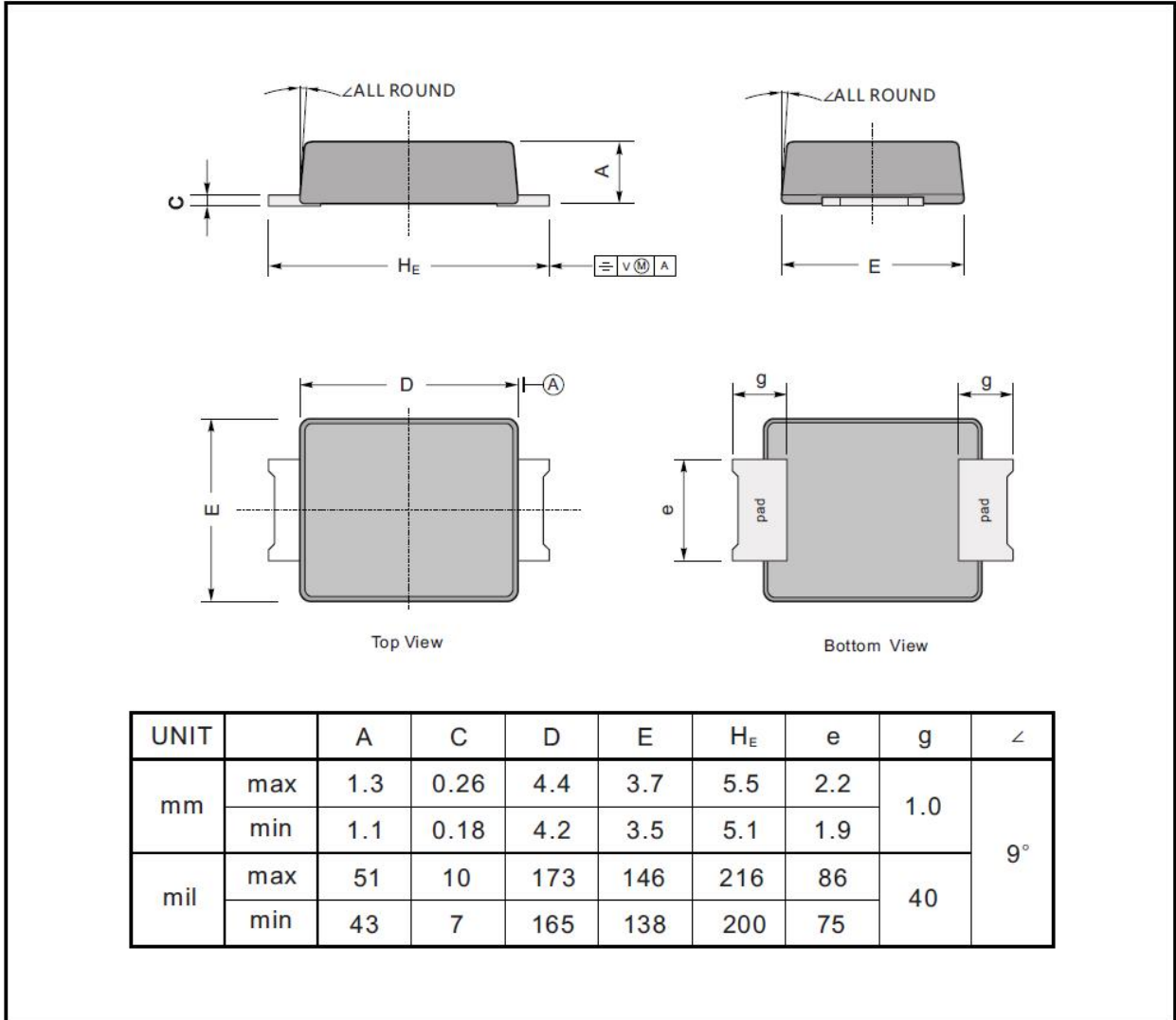


Fig.6- Typical Transient Thermal Impedance

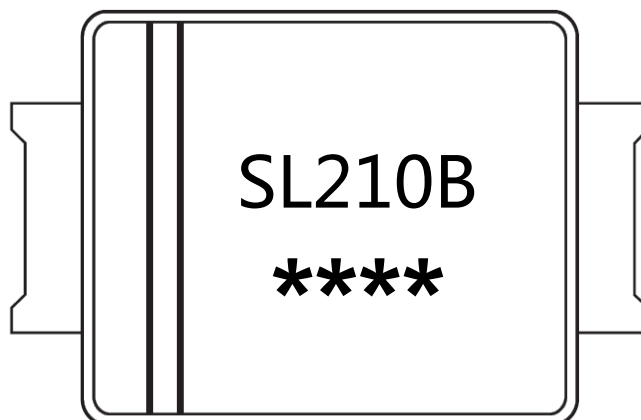


外形尺寸图 / Package Dimensions

SMBF



印章说明 / Marking Instructions



说明：

SL210B： 为型号代码

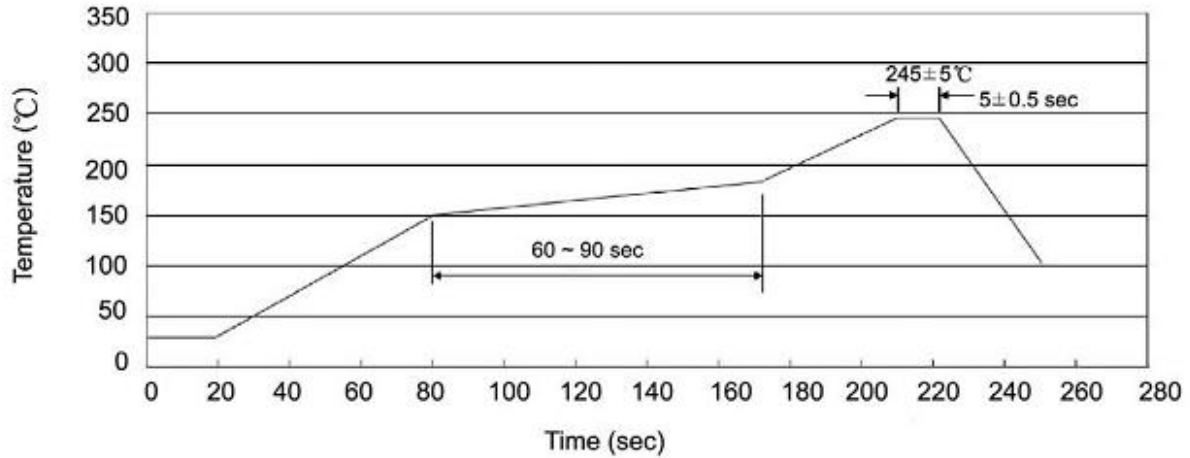
\*\*\*\*： 为生产批号追溯码，第1个\*为年月代码，后面3个\*为当月小批号代码

Note:

SL210B： Product Type Code

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

**回流焊温度曲线图(无铅) / Temperature Profile for IR Reflow Soldering(Pb-Free)**



说明：

- 1、预热温度 150 ~ 180°C，时间 60 ~ 90sec；
- 2、峰值温度 245±5°C，时间持续为 5±0.5sec；
- 3、焊接制程冷却速度为 2 ~ 10°C/sec.

Note:

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

**耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions**

温度：260±5°C

时间：10±1 sec.

Temp.:260±5°C

Time:10±1 sec

**包装规格 / Packaging SPEC.**

卷盘包装 / REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SMBF	5000	2	10000	5	50000	13" ×12	336X332X40	380X335X366

**使用说明 / Notices**