

/ Revised record

A	2020-8-15				

/ Descriptions

100V 3.0A SMBF

Surface Mount Schottky Barrier Rectifier, Reverse Voltage:100V,Forward Current:3.0A,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.

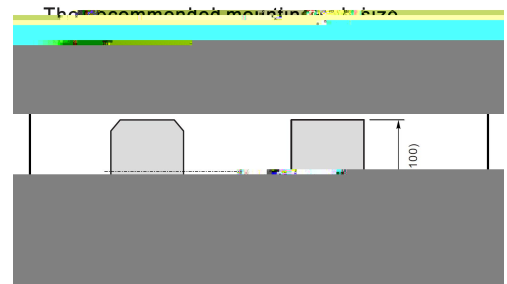
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

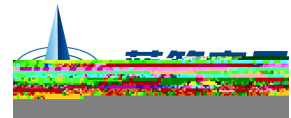
Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	$I_F (AV)$	3.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80	A
Typical Junction Capacitance ¹⁾	C_j	160	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	60	°C/W
Operating Junction Temperature Range	T_j	-55~+150	°C
Storage Temperature Range	T_{stg}	-55~+150	°C

Note:

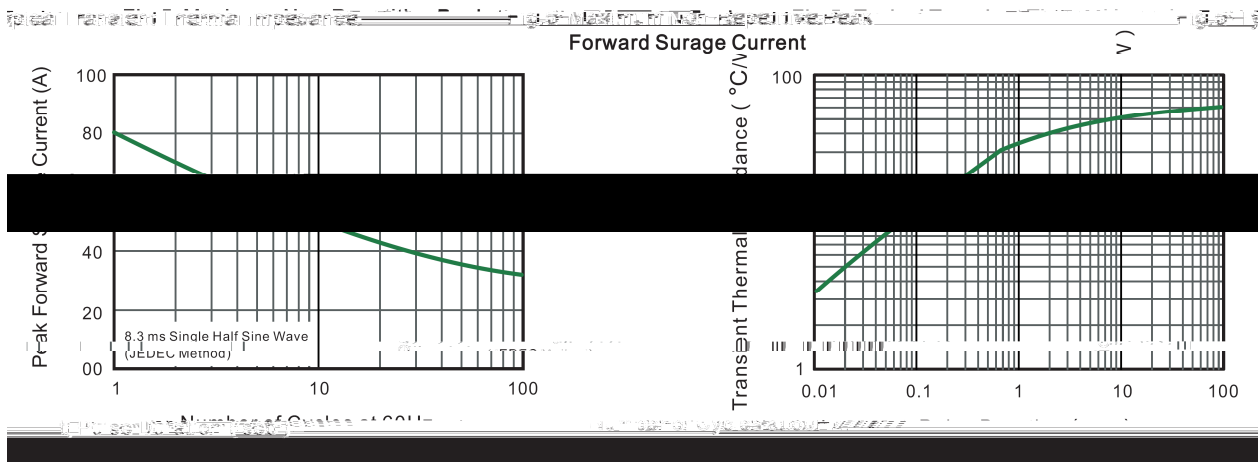
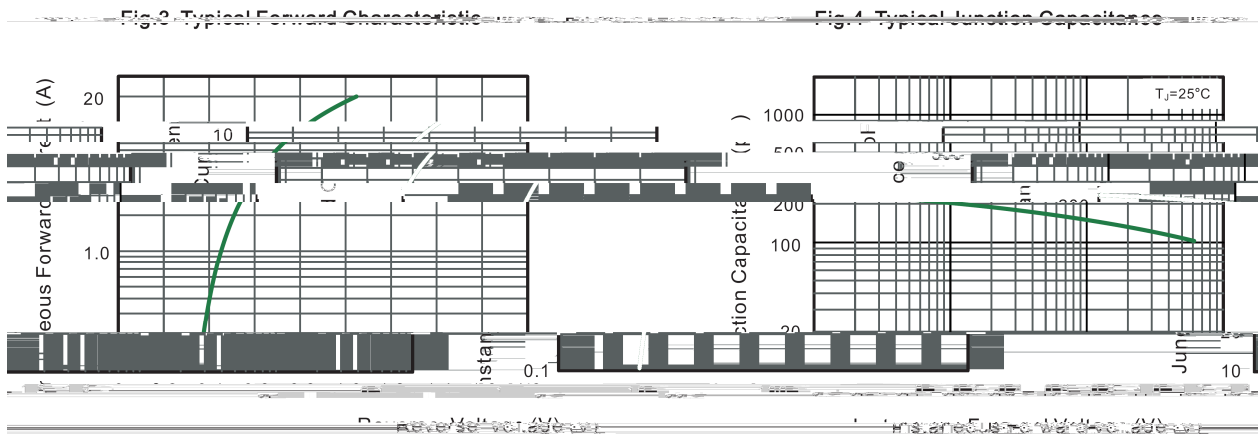
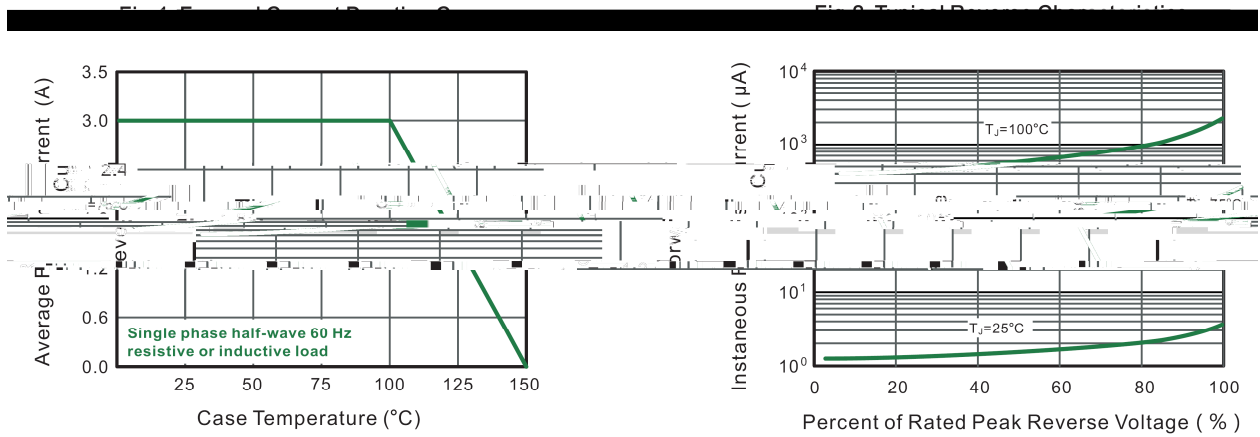
- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 2.0 X2.0" (5 X 5 cm) copper pad areas.

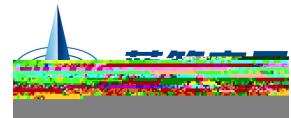
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test condition	Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.6	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^{\circ}C$ $T_a=100^{\circ}C$	1.0 5	mA



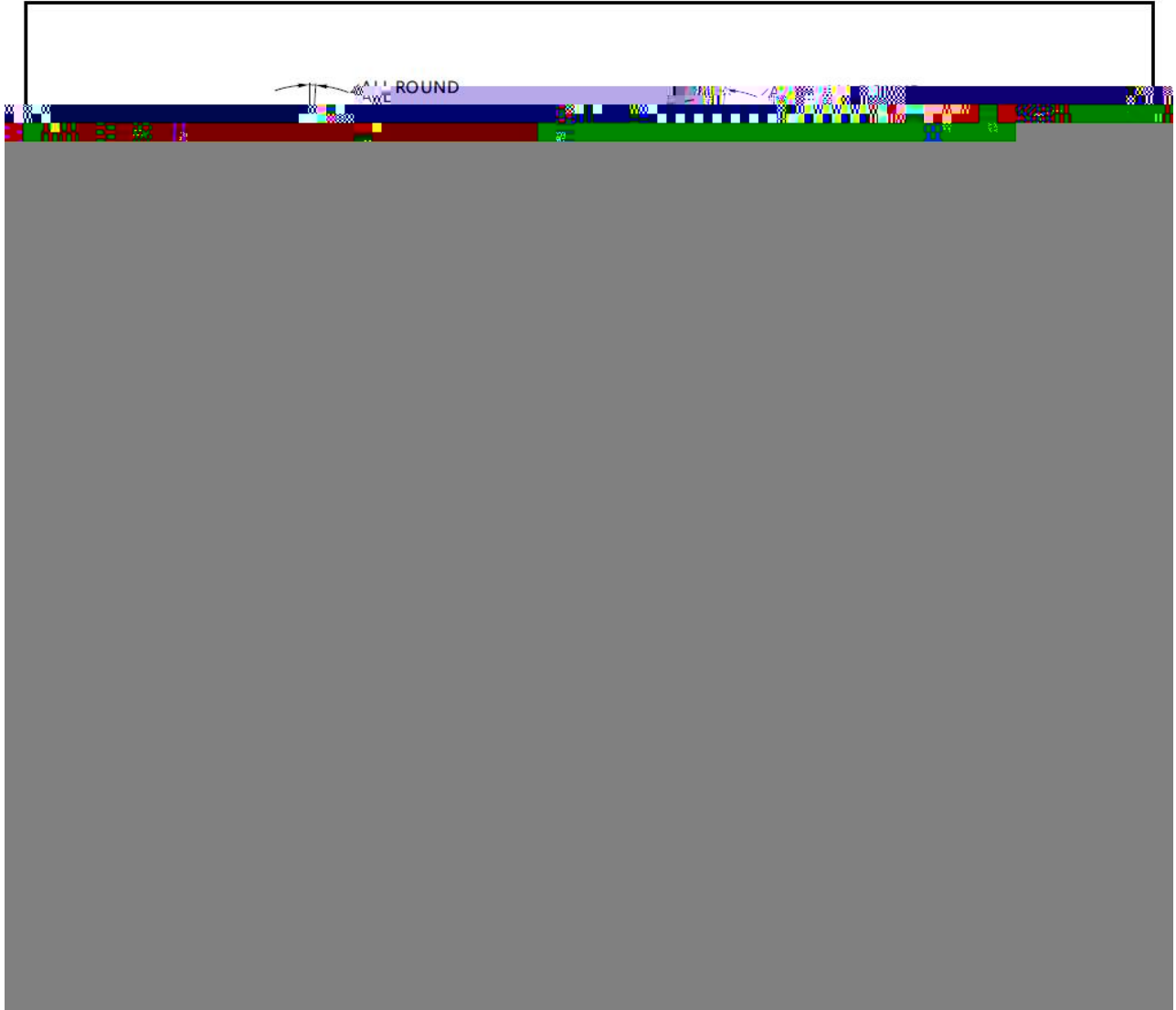
/ Electrical Characteristic Curve



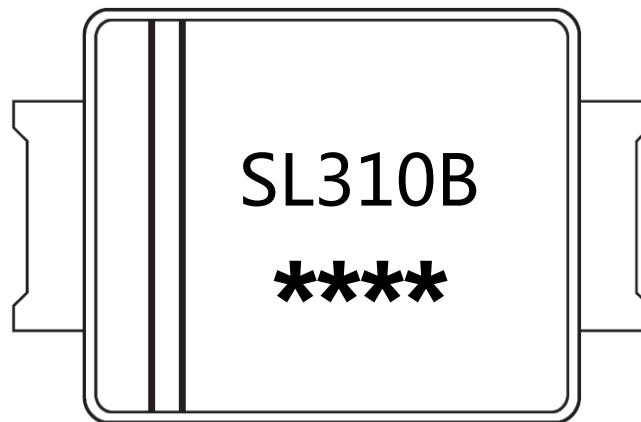


/ Package Dimensions

SMBF



/ Marking Instructions



SL310B

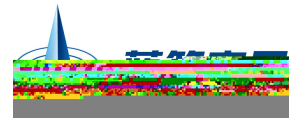
1 *

3 *

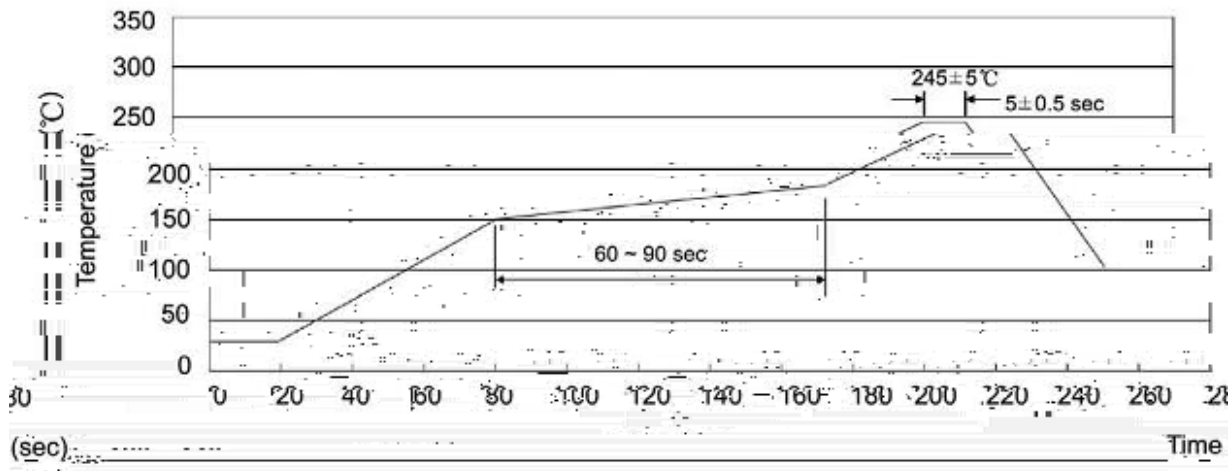
Note:

SL310B 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 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	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	Outer Box
SMBF	5000	2	10000	5	50000	13" ×12	336X332X40	380X335X366

/ Notices