



A			W01		



Rev.A Jun.-2021

60V	5.0A	SMBF	
Surface Mount Schottky Barrier Rectifier, ReR P			k)



Rev.A Jun.-2021

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	$I_F (AV)$	5.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	150	A
Typical Junction Capacitance ¹⁾	C_j	800	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	40	°C/W

Note:

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

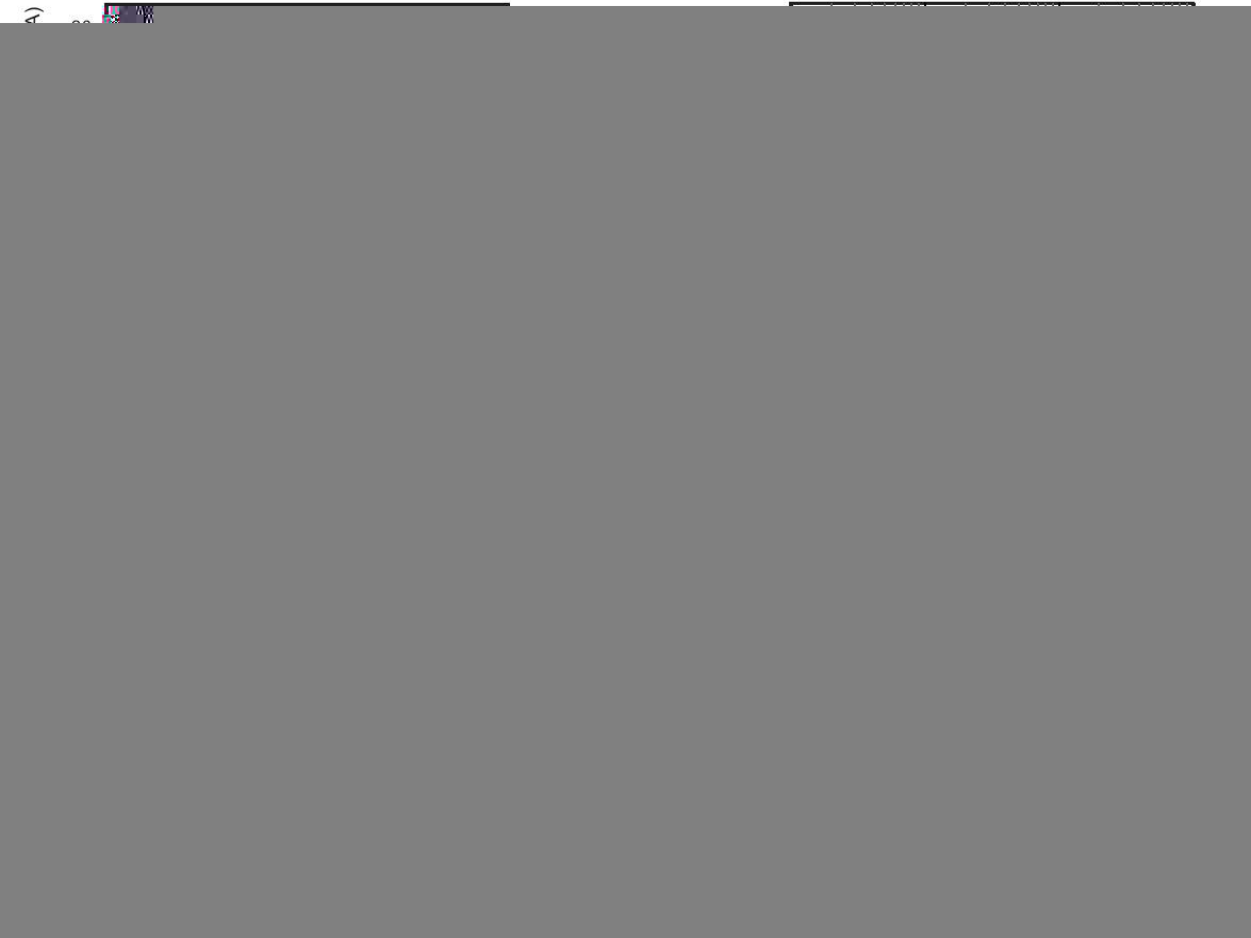
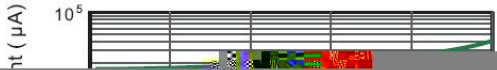
Parameter	Symbol	Test condition	Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=5.0A$	0.5	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^{\circ}C$	1.0	mA
		$T_a=100^{\circ}C$	50	



Fig.1 Forward Current Derating Curve

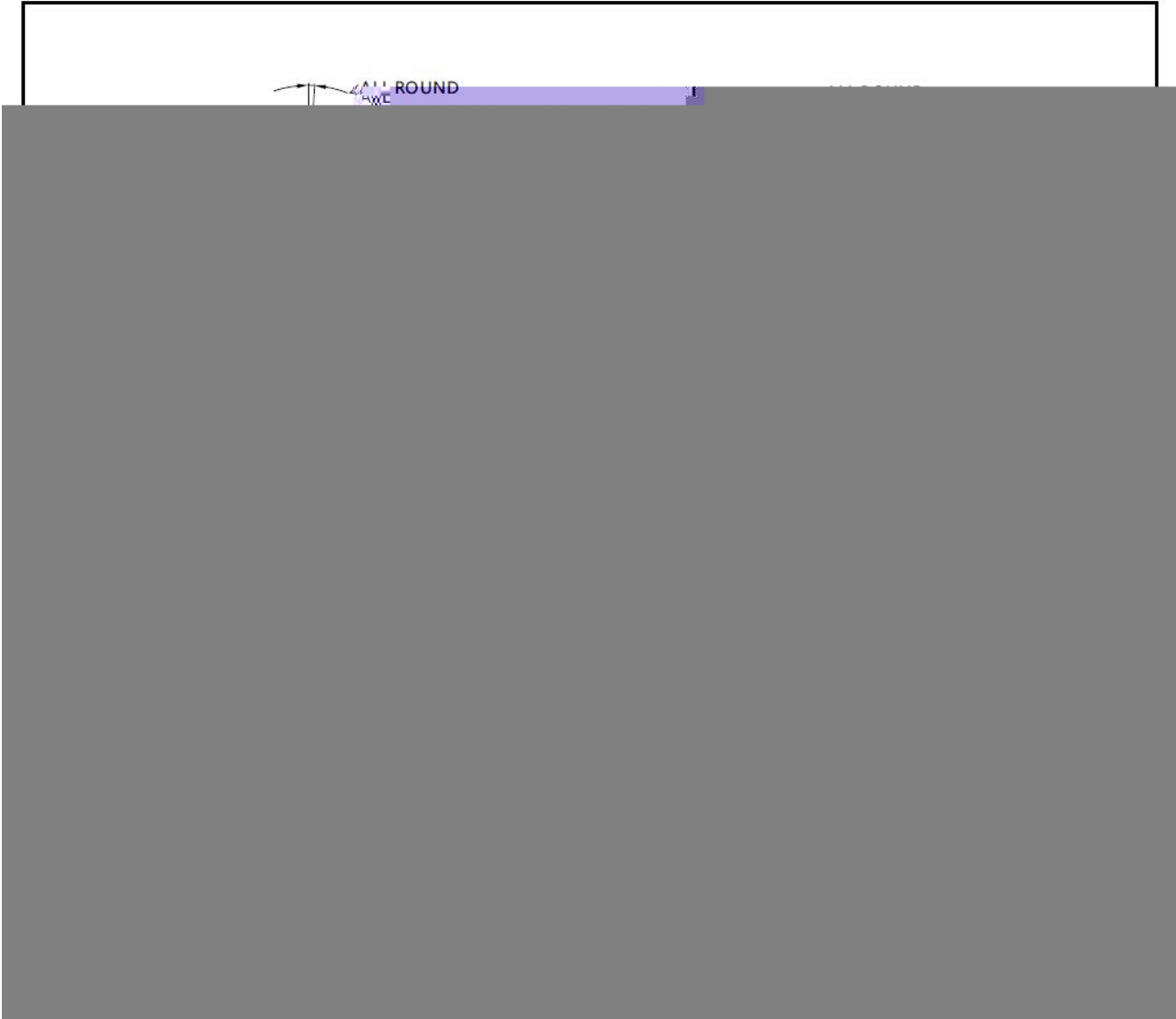


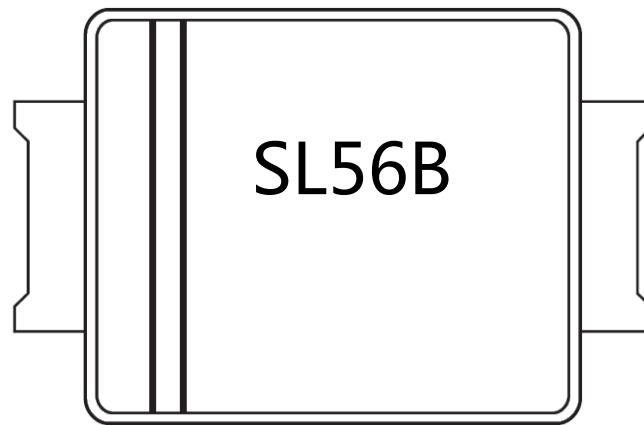
Fig.2 Typical Reverse Characteristics





SMBF





SL56B

1 *

3 *

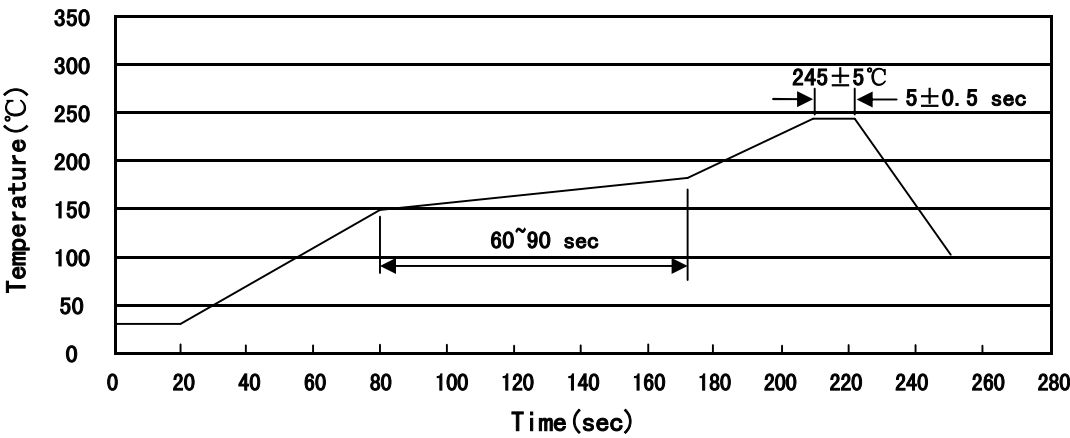
Note:

SL56B 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.

260±5°C

10±1 sec.

Temp.:260±5°C

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱	寸	寸	寸
SMBF	5000	2	10000	7	70000	13" ×12	336X336X40	380X335X366