

/ Descriptions

40V 3.0A SMBF

Surface Mount Schottky Barrier Rectifier, Reverse Voltage:40V,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.

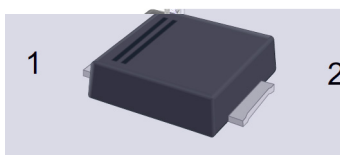
/ Applications

General purpose.

/ Equivalent Circuit

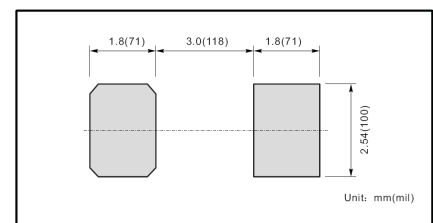


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

Table 1 / Absolute Maximum Ratings(Ta=25 °C ;)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current at $T_c=100$	I_{FAV}	3.0	A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load	I_{FSM}	80	A
Typical Junction Capacitance ¹	C_j	350	pF
Typical Thermal Resistance ²	R_{JA}	47	/W
Operating Junction Temperature Range	T_j	-55~+150	
Storage Temperature Range	T_{stg}	-55~+150	

Note:

1 Measured at 1MHz 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.

Table 2 / Electrical Characteristics(Ta=25 °C ;)

Parameter	Symbol	Test condition	Rating	Unit
Max Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.45	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25$	0.3	mA
		$T_a=100$	5	

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ =) ¢ / Package Dimensions

, M y f / Marking Instructions

, M y f / Marking Instructions

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SL34B y ° Z W A

**** y ¨ D Z A Ç A k † 1 * v Ã W A k e μ 3 * ¢ Ã 4 Z W A

Note:

SL34B y Product Type Code

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

šWD t... •Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6

a ç y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
2o• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.
2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260 r5 - Time:10 r1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type ß m ù ´	Units g m ô h					Dimension g m d Ê (unit ! mm ³)		
	Units/Reel / í	Reels/Inner Box í /ç	Units/Inner Box /ç	Inner Boxes/Outer Box ç/±	Units/Outer Box /±	Reel	Inner Boxç	Outer Box±
SMBF	5000	2	10000	5	50000	13 s ×15	336X332X40	380X335X366

„Đ y f / Notices