

5 é / Descriptions

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Surface Mount Schottky Barrier Rectifier, Reverse Voltage:45V,Forward Current:5.0A,SMBF thin package.

□ ª / Features

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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,HF Product.

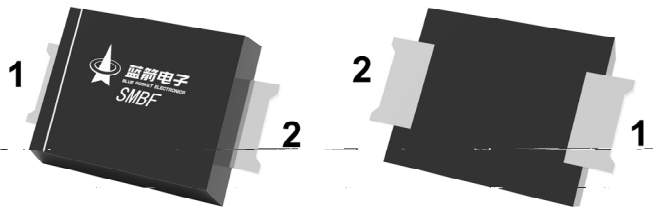
Đ ÷ / Applications

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General purpose.

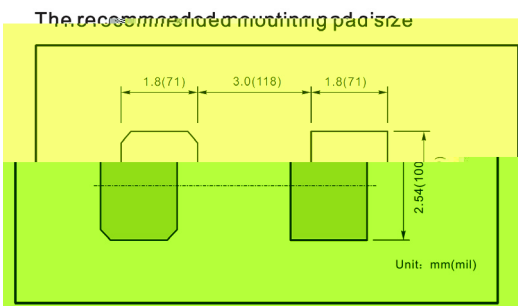
Ã W] Ô · / Equivalent Circuit



• Ů - æ / Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



, M V / Marking

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See Marking Instructions.

1. Absolute Maximum Ratings(Ta=25℃ ;)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	45	V
Maximum RMS voltage	V _{RMS}	32	V
Maximum DC Blocking Voltage	V _{DC}	45	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	500	pF
Typical Thermal Resistance ²	R _{JA}	55	/W
Operating Junction Temperature Range	T _j	-55~+125	
Storage Temperature Range	T _{stg}	-55~+150	

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.

2. Electrical Characteristics(Ta=25℃ ;)

Parameter	Symbol	Test condition	Rating	Unit
Max Instantaneous Forward Voltage	V _F	I _F =5.0A	0.43	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _j =25	0.5	mA
		T _j =100℃	20	

Electrical Characteristic Curve

Fig.1 Typical Forward Current Derating Curve

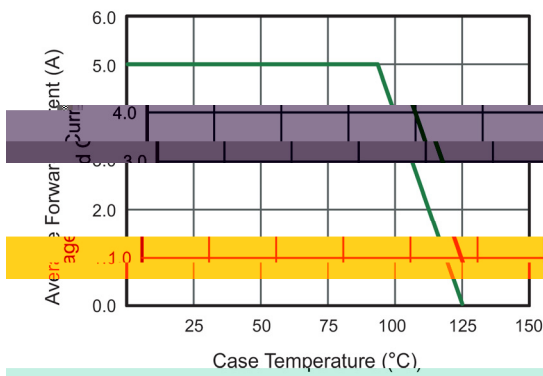


Fig.2 Typical Reverse Characteristics

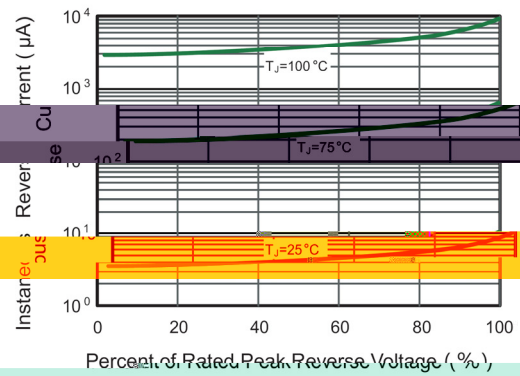


Fig.3 Typical Forward Characteristics

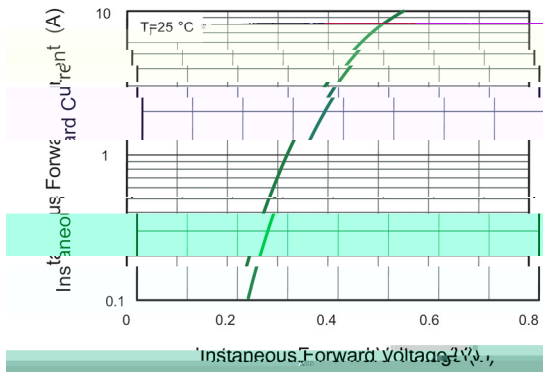


Fig.4 Typical Junction Capacitance

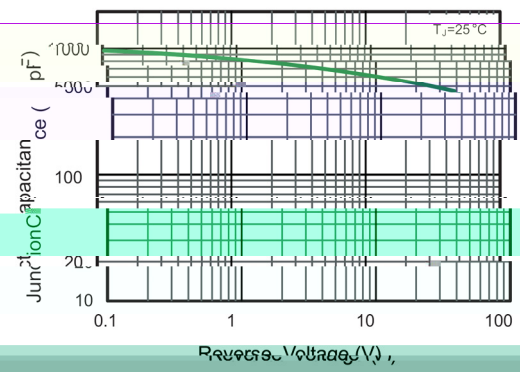


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

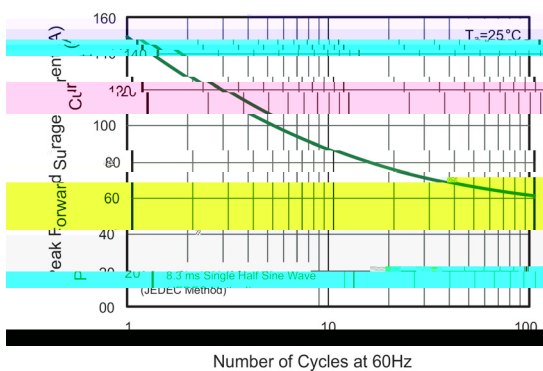
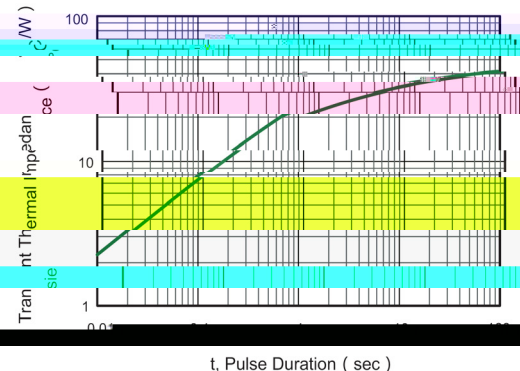
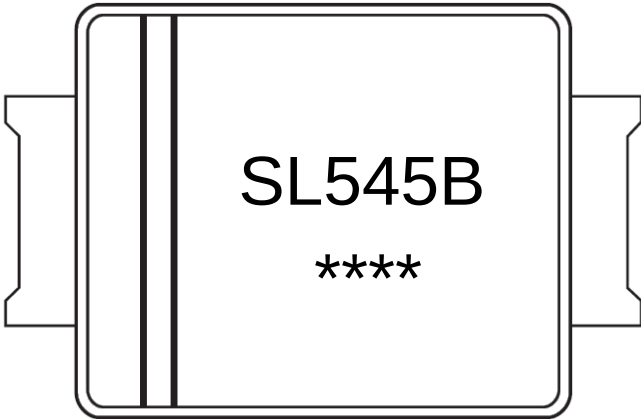


Fig.6 Typical Transient Thermal Impedance



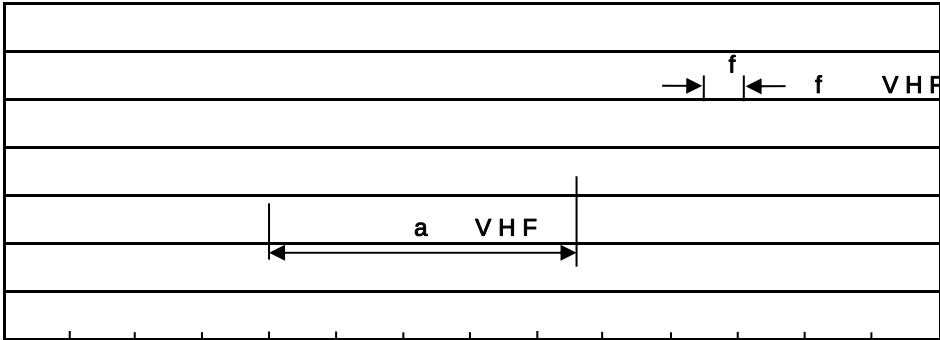
, M y f / Marking Instructions



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9 2 (y ° Z W A
**** y Ÿ D Z W A k š Ÿ D Z J

Note:
9 2 (y Product Type Code
**** y Lot No. Code, code change with Lot No

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



a ¢ 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±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
SMBF	5,000	2	10,000	7	70,000	13 s ×12	336X336X40	380X335X366

„Đ y f / Notices