



Rev.C Oct.-2024



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SMBF / xo

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

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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.

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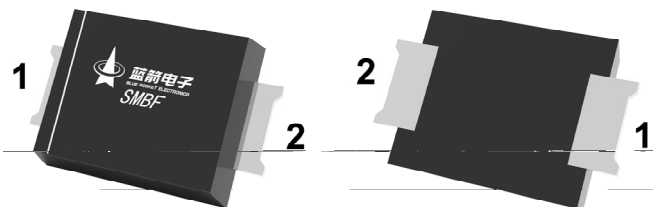
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General purpose.

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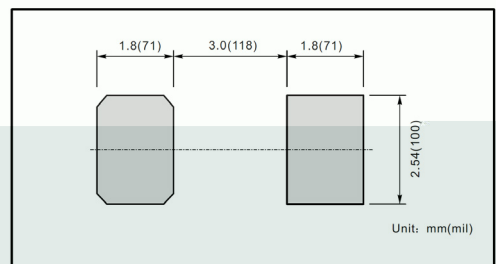


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PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



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See Marking Instructions.

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@ Parameter	@ Z Symbol	Rating	% y 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 AAV A}	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 A}	C _j	500	pF
Typical Thermal Resistance ^{2 A}	R _{JA}	55	/W
Operating Junction Temperature Range	T _j	-55~+125	
Storage Temperature Range	T _{stg}	-55~+150	

Note:

1 Å Measured at 1 MHz and applied reverse voltage of 4 V D.C

2 Å P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

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@ Parameter	@ Z Symbol	y i Ū Test condition	Rating	% y 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∞C	20	



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Fig.1 Forward Current Derating Curve

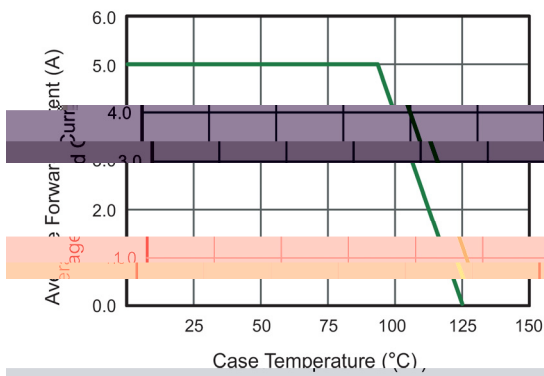


Fig.2 Typical Reverse Characteristics

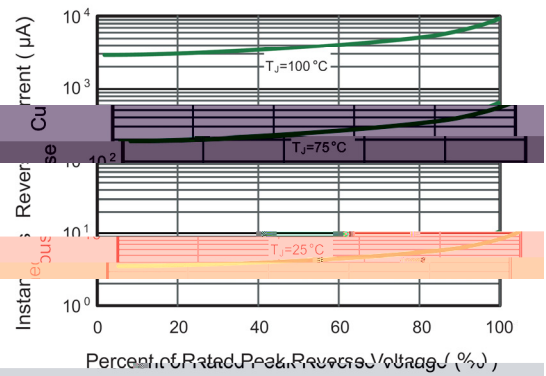


Fig.3 Typical Forward Characteristic

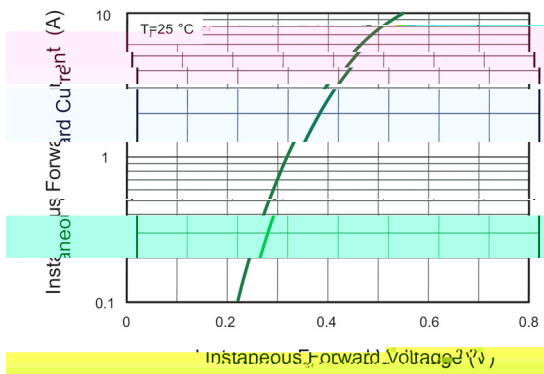


Fig.4 Typical Junction Capacitance

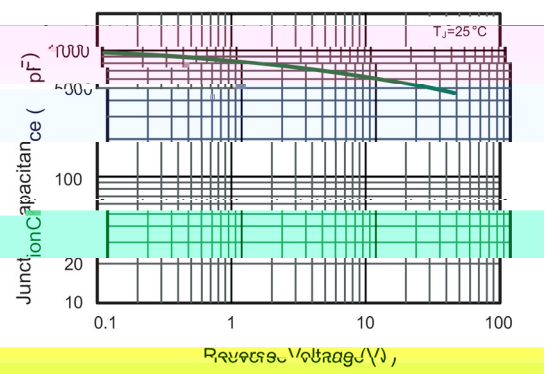


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

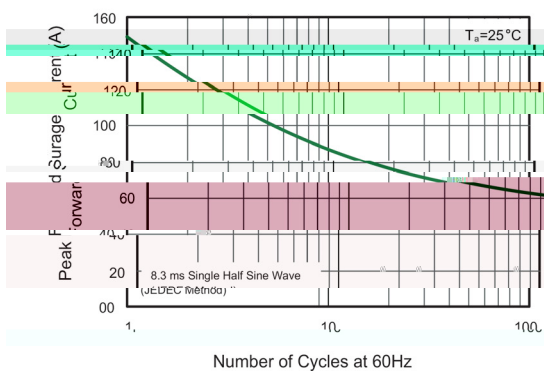
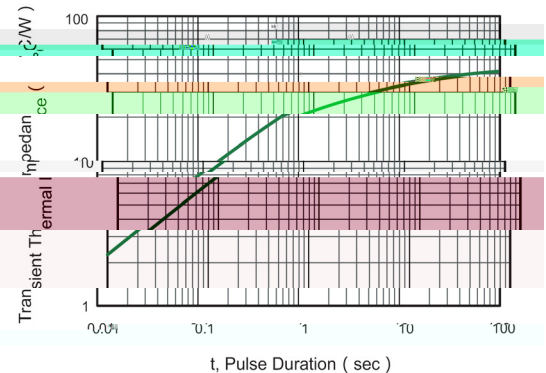
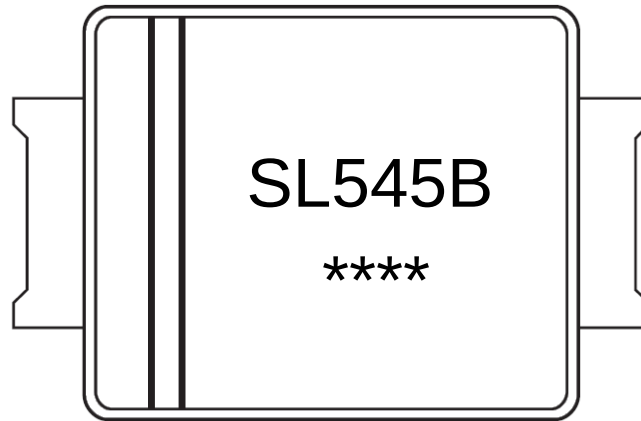


Fig.6 Typical Transient Thermal Impedance





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**** y ÿD Z W A k ÿD Z J

Note:

9 2 (y Product Type Code

**** y Lot No. Code, code change with Lot No



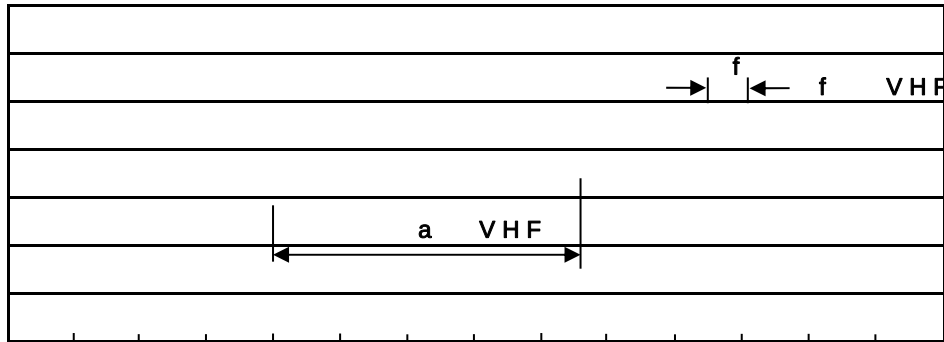
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蓝箭电子
BLUE ROCKET ELECTRONICS



WD t ¢ (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6



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Note:

1o ~ % 150 ~180 - k 60 %90sec;

1.Preheating:150~180 - , Time:60~90sec.

2o Q 245 r5 - k 4 Ò 5 r0.5sec;

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3o D N òi Ò , 2 %10 - /sec.

3. Cooling Speed: 2~10 - /sec.

´D /Cª p fl »] /

y 260 r5 -

y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

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2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit /mm³)		
	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 Ø12	336X336X40	380X335X366

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