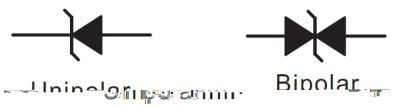
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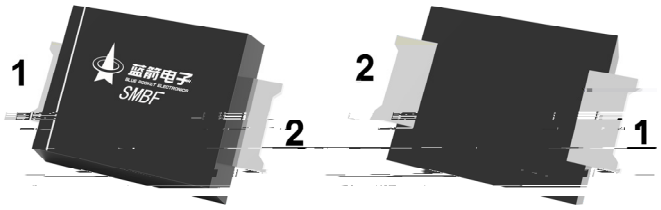
600W, 5.0V~440V SMBF

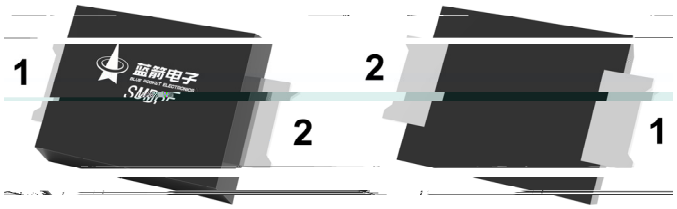
Surface mount transient voltage suppressor power 600 watts,Stand-Off Voltage 5.0V~440V ,SMBF package.

Glass passivated junction, Low inductance, For surface mounted applications,HF Product.

General purpose.




See Marking Instructions.

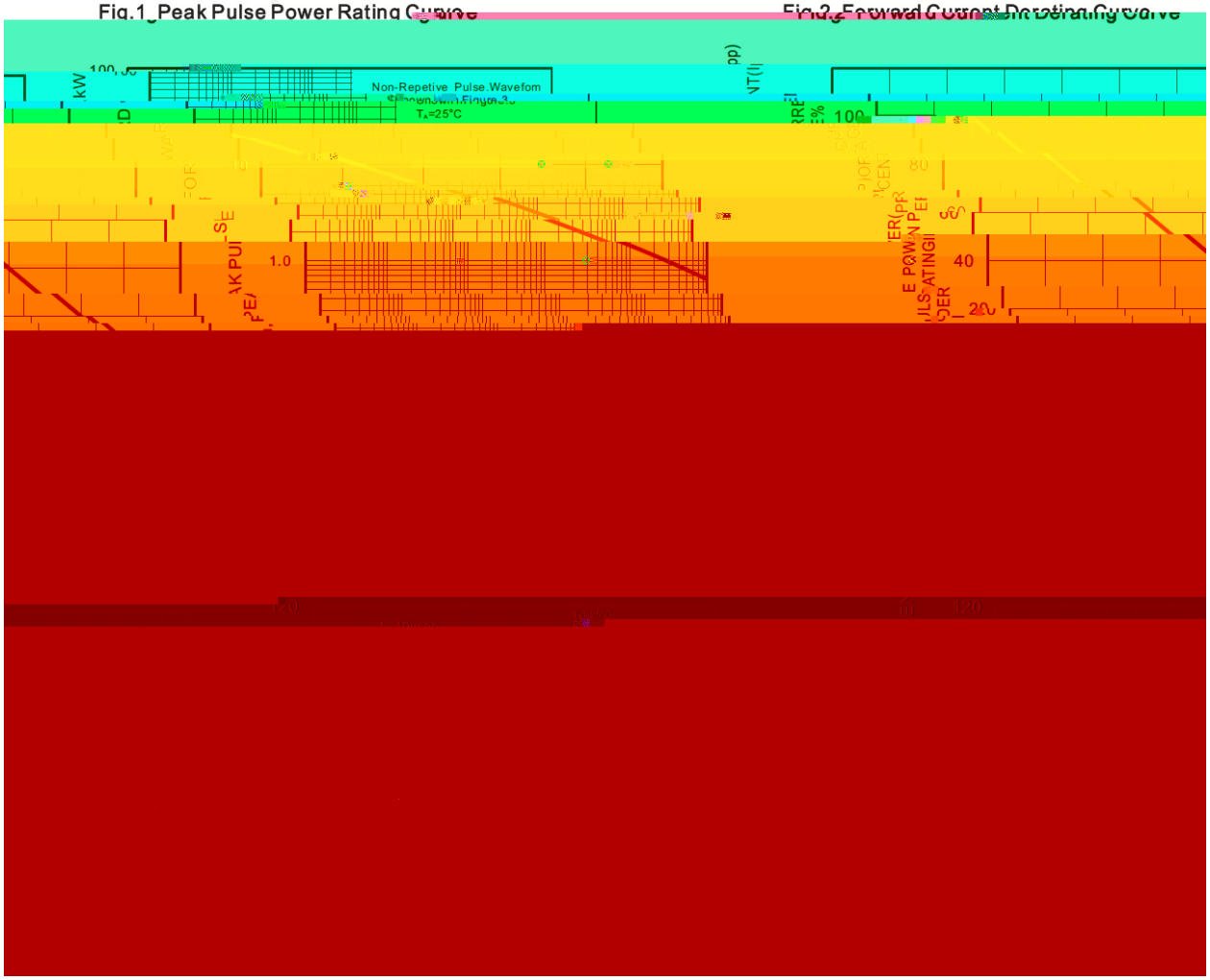
| Parameter | | Symbol | Rating | Unit |
|---|---|---|---|---|
| Peak Pulse Power Dissipation on 10/1000 us waveform ( Note1,Note2, Fig.1). | | $P_{PPM}$ | 600 | W |
| Peak Forward Surge Current,8.3ms Single Half Sine-Wave Superimposed on Rated Load, (JEDEC Method) (Note 3,Fig4). | | $I_{FSM}$ (UNI) | 100 | A |
| Peak Pulse Current on 10/1000 us waveform (Note 1, Fig 3) | | $I_{PPM}$ | see Table 1 | A |
| Typical Junction capacitance at VR=4V, f=1MHz | | $C_J$ | 390 | pF |
| ESD Voltage per IEC6100-4-2 | Contact | $V_{ESD1}$ | ± 30 | KV |
| | Air | $V_{ESD2}$ | ± 30 | KV |
| Typical Thermal Resistance Junction to Ambient(Note 2) | | $R_{JA}$ | 100 | /W |
| Operating Junction Temperature and Storage Temperature Range | | $T_j$, $T_{stg}$ | -55 ~ +150 | |

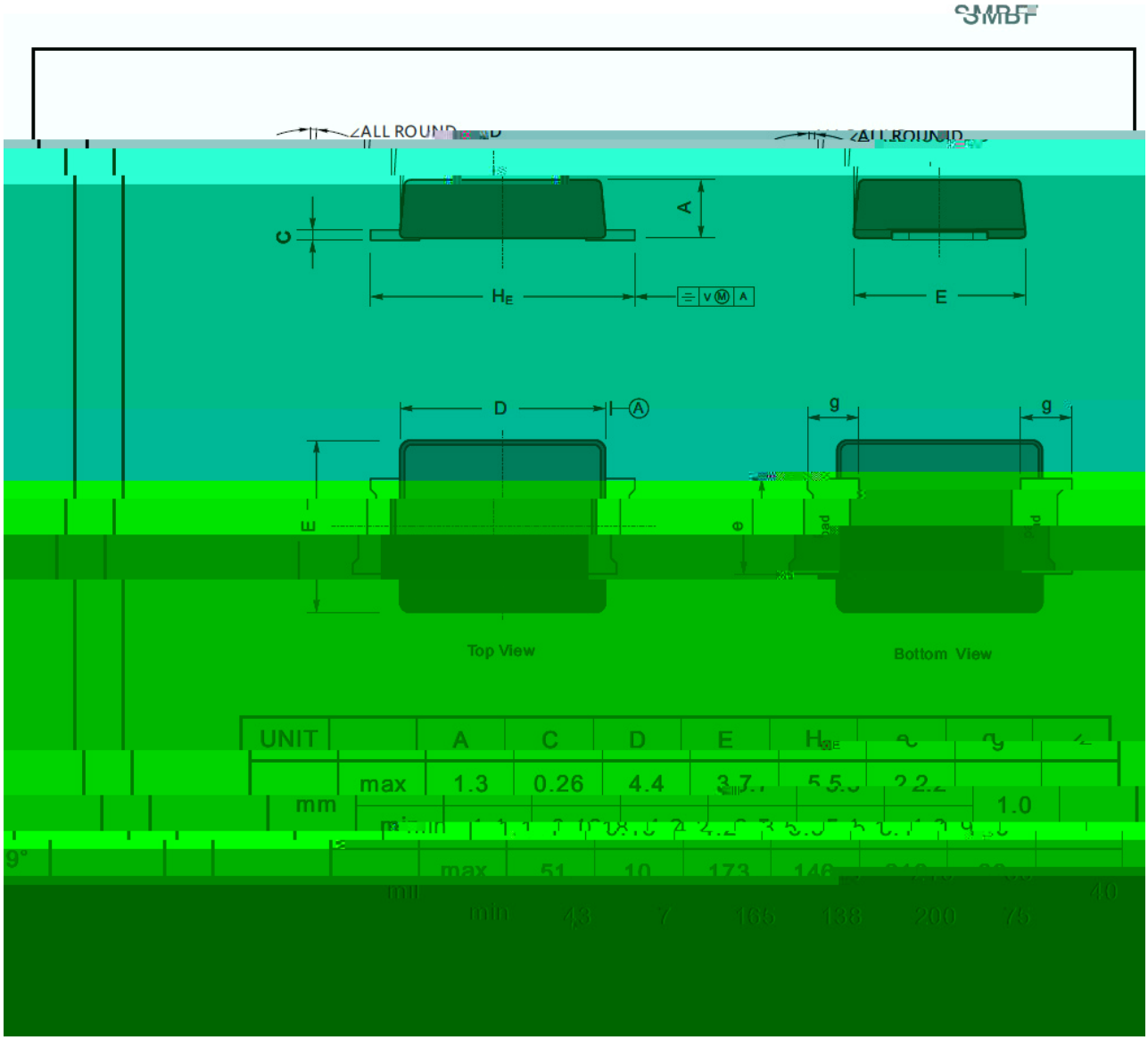
| Type | | Reverse Stand-off Voltage | Breakdown Voltage | | Test Current | Reverse Leakage | Max. Clamp Voltage | Peak Pulse Current | Package | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{BR}$ @ $I_T$ | | $I_T$ | $I_R$ @ $V_{RRM}$ | $V_C$ @ $I_{PP}$ | $I_{PP}$ | SMBF | |
| | | $V_{RRM}$ | Min | Max | | | | | Device Marking Code | |
| UNI | BI | V | V | V | mA | uA | V | A | UNI | BI |
| SMBFJ5.0A | SMBFJ5.0CA | 5 | 6.4 | 7 | 10 | 800 | 9.2 | 65.3 | KE | AE |
| SMBFJ6.0A | SMBFJ6.0CA | 6 | 6.67 | 7.37 | 10 | 800 | 10.3 | 58.3 | KG | AG |
| SMBFJ6.5A | SMBFJ6.5CA | 6.5 | 7.22 | 7.98 | 10 | 500 | 11.2 | 53.6 | KK | AK |
| SMBFJ7.0A | SMBFJ7.0CA | 7 | 7.78 | 8.6 | 10 | 200 | 12.0 | 50.0 | KM | AM |
| SMBFJ7.5A | SMBFJ7.5CA | 7.5 | 8.33 | 9.21 | 1 | 100 | 12.9 | 46.6 | KP | AP |
| SMBFJ8.0A | SMBFJ8.0CA | 8 | 8.89 | 9.83 | 1 | 50 | 13.6 | 44.2 | KR | AR |
| SMBFJ8.5A | SMBFJ8.5CA | 8.5 | 9.44 | 10.4 | 1 | 20 | 14.4 | 41.7 | KT | AT |
| SMBFJ9.0A | SMBFJ9.0CA | 9 | 10 | 11.1 | 1 | 10 | 15.4 | 39.0 | KV | AV |
| SMBFJ10A | SMBFJ10CA | 10 | 11.1 | 12.3 | 1 | 5 | 17.0 | 35.3 | KX | AX |
| SMBFJ11A | SMBFJ11CA | 11 | 12.2 | 13.5 | 1 | 1 | 18.2 | 33.0 | KZ | AZ |
| SMBFJ12A | SMBFJ12CA | 12 | 13.3 | 14.7 | 1 | 1 | 19.9 | 30.0 | LE | BE |
| SMBFJ13A | SMBFJ13CA | 13 | 14.4 | 15.9 | 1 | 1 | 21.5 | 28.0 | LG | BG |
| SMBFJ14A | SMBFJ14CA | 14 | 15.6 | 17.2 | 1 | 1 | 23.2 | 25.9 | LK | BK |
| SMBFJ15A | SMBFJ15CA | 15 | 16.7 | 18.5 | 1 | 1 | 24.4 | 24.6 | LM | BM |
| SMBFJ16A | SMBFJ16CA | 16 | 17.8 | 19.7 | 1 | 1 | 26.0 | 23.1 | LP | BP |
| SMBFJ17A | SMBFJ17CA | 17 | 18.9 | 20.9 | 1 | 1 | 27.6 | 21.8 | LR | BR |
| SMBFJ18A | SMBFJ18CA | 18 | 20 | 22.1 | 1 | 1 | 29.2 | 20.6 | LT | BT |
| SMBFJ20A | SMBFJ20CA | 20 | 22.2 | 24.5 | 1 | 1 | 32.4 | 18.6 | LV | BV |
| SMBFJ22A | SMBFJ22CA | 22 | 24.4 | 26.9 | 1 | 1 | 35.5 | 16.9 | LX | BX |
| SMBFJ24A | SMBFJ24CA | 24 | 26.7 | 29.5 | 1 | 1 | 38.9 | 15.5 | LZ | BZ |
| SMBFJ26A | SMBFJ26CA | 26 | 28.9 | 31.9 | 1 | 1 | 42.1 | 14.3 | ME | CE |
| SMBFJ28A | SMBFJ28CA | 28 | 31.1 | 34.4 | 1 | 1 | 45.4 | 13.3 | MG | CG |
| SMBFJ30A | SMBFJ30CA | 30 | 33.3 | 36.8 | 1 | 1 | 48.4 | 12.4 | MK | CK |
| SMBFJ33A | SMBFJ33CA | 33 | 36.7 | 40.6 | 1 | 1 | 53.3 | 11.3 | MM | CM |
| SMBFJ36A | SMBFJ36CA | 36 | 40 | 44.2 | 1 | 1 | 58.1 | 10.4 | MP | CP |
| SMBFJ40A | SMBFJ40CA | 40 | 44.4 | 49.1 | 1 | 1 | 64.5 | 9.3 | MR | CR |
| SMBFJ43A | SMBFJ43CA | 43 | 47.8 | 52.8 | 1 | 1 | 69.4 | 8.7 | MT | CT |

| Type | | Reverse Stand-off Voltage | Breakdown Voltage | | Test Current | Reverse Leakage | Max. Clamp Voltage | Peak Pulse Current | Package | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | $V_{BR}$ @ $I_T$ | | $I_T$ | $I_R$ @ $V_{RRM}$ | $V_C$ @ $I_{PP}$ | $I_{PP}$ | SMB | |
| | | $V_{RRM}$ | Min | Max | | | | | Device Marking Ccode | |
| UNI | BI | V | V | V | mA | uA | V | A | UNI | BI |
| SMBFJ45A | SMBFJ45CA | 45 | 50 | 55.3 | 1 | 1 | 72.7 | 8.3 | MV | CV |
| SMBFJ48A | SMBFJ48CA | 48 | 53.3 | 58.9 | 1 | 1 | 77.4 | 7.8 | MX | CX |
| SMBFJ51A | SMBFJ51CA | 51 | 56.7 | 62.7 | 1 | 1 | 82.4 | 7.3 | MZ | CZ |
| SMBFJ54A | SMBFJ54CA | 54 | 60 | 66.3 | 1 | 1 | 87.1 | 6.9 | NE | DE |
| SMBFJ58A | SMBFJ58CA | 58 | 64. | | | | | | | |

Fig.1 Peak Pulse Power Rating Curve

Fig.2 Forward Current Derating Curve






| UNIT | | A | C | D | E | $H_E$ | | | |
|---|---|---|---|---|---|---|---|---|---|
| mm | max | 1.3 | 0.26 | 4.4 | 3.7 | 5.5 | 2.2 | 1.0 | 9° |
| | min | 1.1 | 0.15 | 4.2 | 3.5 | 5.1 | 1.9 | | |
| mil | max | 51 | 10 | 173 | 146 | 216 | 86 | 40 | |
| | min | 43 | 7 | 165 | 138 | 200 | 75 | | |

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Note:

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

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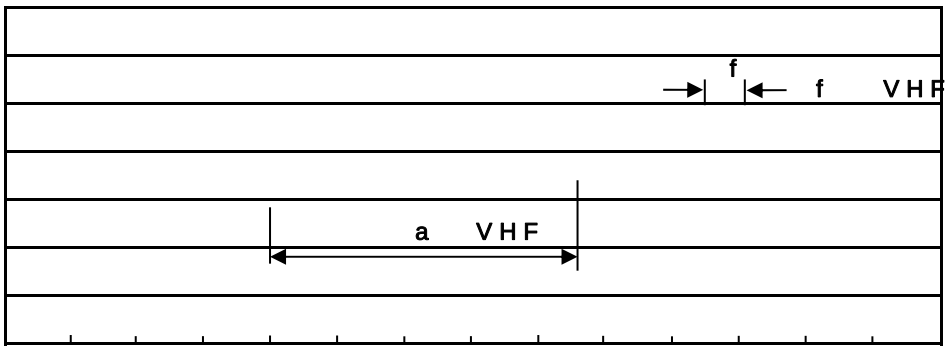
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Note:

1 + y Product Type Code

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

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**Wf)•bp T( Â 7 ]• 4 F**

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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 Æmm³) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel / -- | Reels/Inner Box -- /- | Units/Inner Box /- | Inner Boxes/Outer Box - /1ç | Units/Outer Box /1ç | Reel | Inner Box× | Outer Box1ç |
| SMBF | 5,000 | 2 | 10,000 | 7 | 70,000 | 13 s ×12 | 336X336X40 | 380X335X366 |

## „ Ð y ƒ / Notices