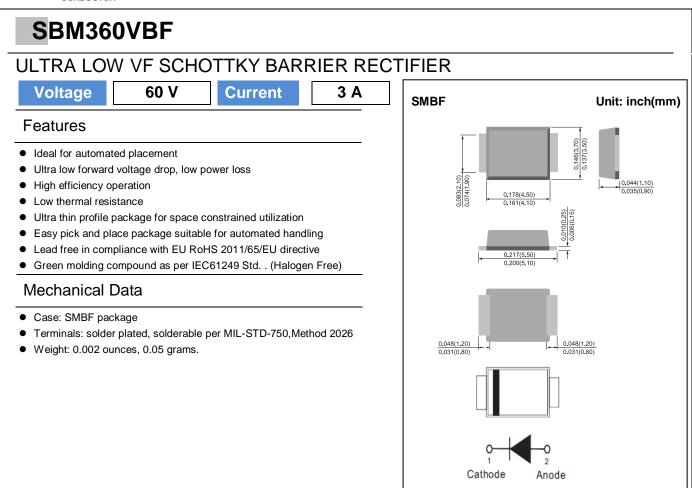
| PAN | JIT               |
|-----|-------------------|
|     | SEMI<br>CONDUCTOR |



### Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

| PARAMETER                                                                               |          | SYMBOL                | LIMIT       | UNIT |
|-----------------------------------------------------------------------------------------|----------|-----------------------|-------------|------|
| Maximum repetitive peak reverse voltage                                                 |          | Vrrm                  | 60          | V    |
| Maximum rms voltage                                                                     |          | Vrms                  | 42          | V    |
| Maximum dc blocking voltage                                                             |          | Vr                    | 60          | V    |
| Maximum average forward rectified cur                                                   | lf(AV)   | 3                     | А           |      |
| Peak forward surge current : 8.3ms single half sine-<br>wave superimposed on rated load |          | IFSM                  | 80          | А    |
| Typical junction capacitance (VR=4V, f=1MHz)                                            |          | CJ                    | 200         | pF   |
| Typical thermal resistance                                                              | (Note 2) | $R_{	ext{	heta}JA}$   | 135         |      |
|                                                                                         | (Note 1) | $R_{	extsf{	heta}JC}$ | 15          | °C/W |
|                                                                                         | (Note 1) | $R_{	extsf{	heta}JL}$ | 20          |      |
| Operating junction temperature range                                                    |          | TJ                    | -55 to +150 | °C   |
| Storage temperature range                                                               |          | Тѕтс                  | -55 to +150 | °C   |

Note : 1. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.

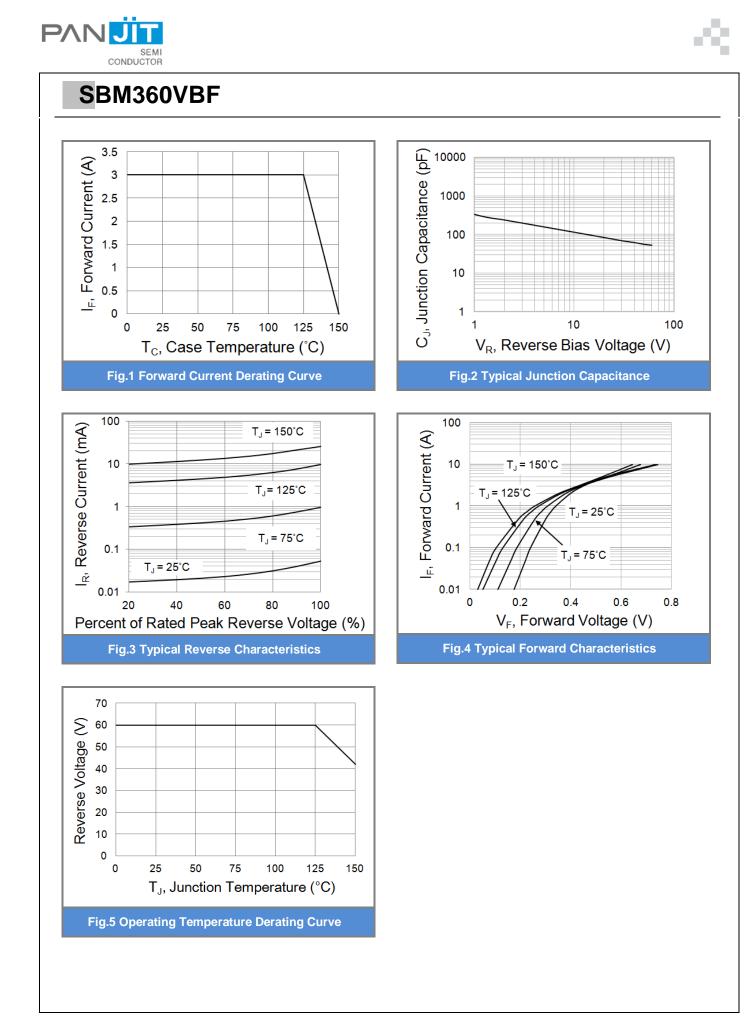
2. Mounted on a FR4 PCB, single-sided copper, mini pad.



# SBM360VBF

Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

| PARAMETER                      | SYMBOL         | TEST CONDITION        |          | MIN. | TYP. | MAX. | UNITS |
|--------------------------------|----------------|-----------------------|----------|------|------|------|-------|
| Breakdown voltage              | $V_{BR}$       | I <sub>R</sub> =0.5mA | TJ=25°C  | 60   | -    | -    | V     |
| Instantaneous forward voltage  | V <sub>F</sub> | I <sub>F</sub> =1A    | TJ=25°C  | -    | 0.34 | -    | V     |
|                                |                | I <sub>F</sub> =3A    |          | -    | -    | 0.5  |       |
|                                |                | I <sub>F</sub> =1A    | TJ=125°C | -    | 0.27 | -    | V     |
|                                |                | I <sub>F</sub> =3A    |          | -    | 0.43 | -    |       |
| Reverse current I <sub>R</sub> |                | V <sub>R</sub> =48V   | TJ=25°C  | -    | 35   | -    | μA    |
|                                | I <sub>R</sub> |                       | TJ=25°C  | -    | -    | 220  | μA    |
|                                |                | V <sub>R</sub> =60V   | TJ=125°C | -    | 10   | -    | mA    |





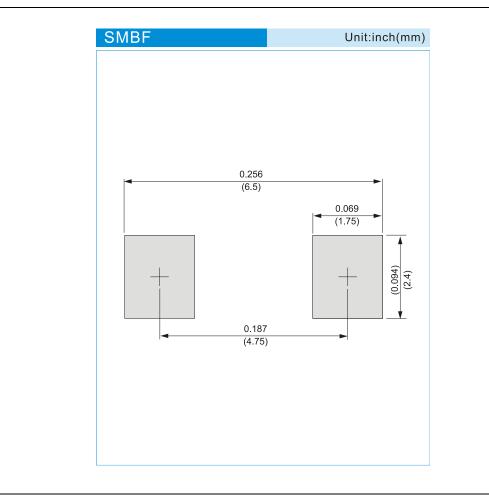


## SBM360VBF

#### Part No Packing Code Version

| Part No Packing Code | Package Type | Packing Type       | Marking   | Version      |
|----------------------|--------------|--------------------|-----------|--------------|
| SBM360VBF_R1_00001   | SMBF         | 1.5K pcs / 7" reel | SBM360VBF | Halogen free |
| SBM360VBF_R2_00001   | SMBF         | 5K pcs / 13" reel  | SBM360VBF | Halogen free |

#### **Mounting Pad Layout**







### SBM360VBF

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