



SB2060LFCT

DUAL LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt **CURRENT** 20 Ampere

FEATURES

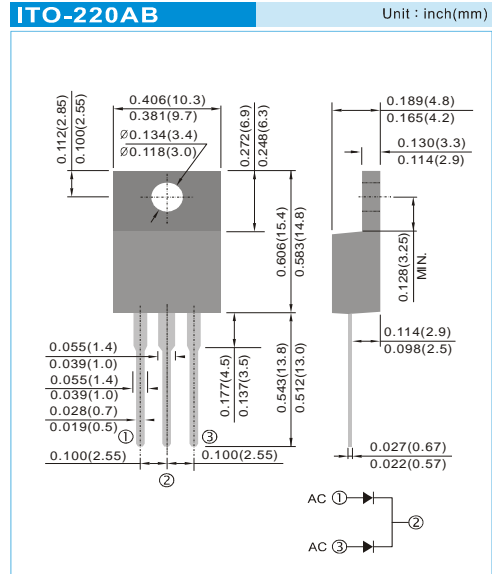
- Low forward voltage drop, low power losses
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directives

MECHANICAL DATA

Case : ITO-220AB, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.055 ounces, 1.5615 grams



MAXIMUM RATINGS($T_A=25^\circ\text{C}$ unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNIT |
|---|-----------------|--------------|-----------------------------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 60 | V |
| Maximum average forward rectified current (Fig.4) | $I_{F(AV)}$ | 20 10 | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode | I_{FSM} | 145 | A |
| Typical thermal resistance | $R_{\theta JC}$ | 4.5 | $^\circ\text{C} / \text{W}$ |
| Operating junction temperature range | T_J | -55 to + 125 | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | -55 to + 150 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS($T_A=25^\circ\text{C}$ unless otherwise noted)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN. | TYP. | MAX. | UNIT |
|--|----------|------------------|------|------|-----------|------|
| Breakdown voltage | V_{BR} | $I_R=1\text{mA}$ | 64 | 68 | - | V |
| Instantaneous forward voltage per diode ⁽¹⁾ | V_F | $I_F=5\text{A}$ | - | 0.44 | 0.51 | V |
| | | $I_F=10\text{A}$ | - | 0.51 | 0.6 | V |
| | | $I_F=5\text{A}$ | - | - | 0.44 | V |
| | | $I_F=10\text{A}$ | - | - | 0.56 | V |
| Reverse current per diode ⁽²⁾ | I_R | $V_R=60\text{V}$ | - | - | 0.5 20 | mA |

Note.1.Pulse test : 380 μs pulse width, 1% duty cycle

2.Pulse test : Pulse width < 2.5ms



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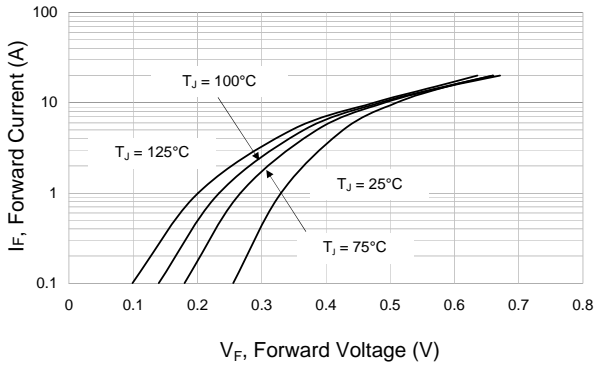


Fig.1 Typical Forward Characteristics Per Diode

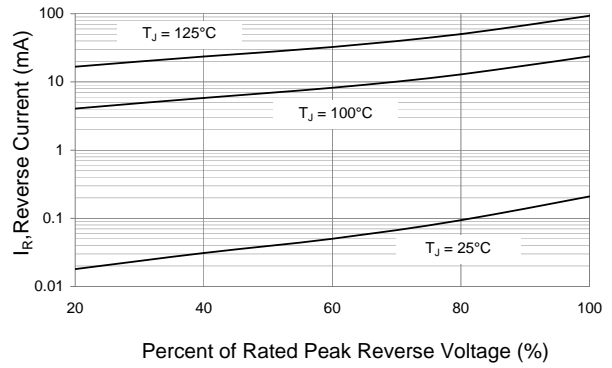


Fig.2 Typical Reverse Characteristics Per Diode

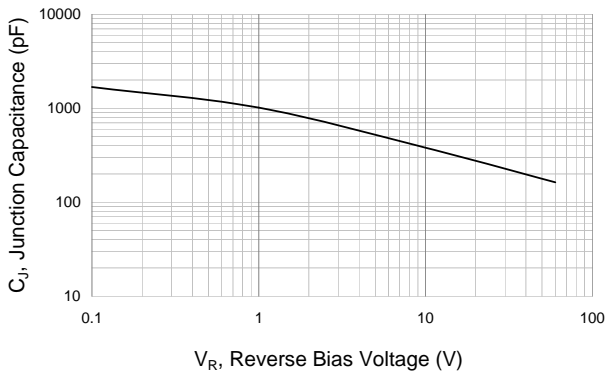


Fig.3 Typical Junction Capacitance Per Diode

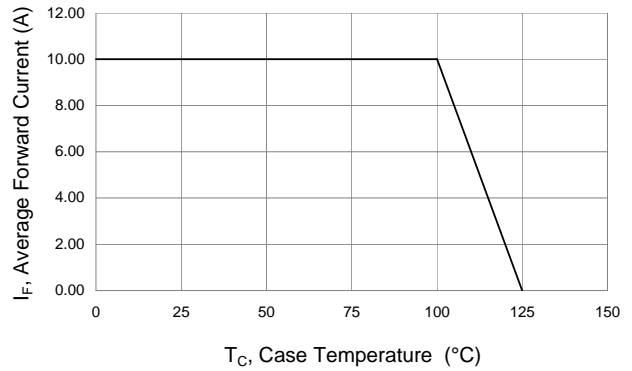


Fig.4 Forward Current Derating Curve Per Diode



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Part No_packing code_Version

SB2060LFCT_T0_00001

SB2060LFCT_T0_10001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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