



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 30 Ampere

FEATURES

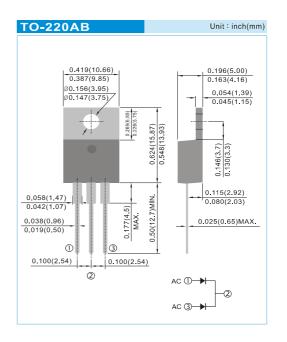
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

• Case: TO-220AB, Plastic

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

• Weight: 0.067 ounces, 1.89 grams



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

| PARAMETER | SYMBOL | VALUE | UNIT | |
|---|-------------------------|---------|--------------|------|
| Maximum repetitive peak reverse voltage | | Vrrm | 60 | V |
| Maximum average forward rectified current | per diode per device | l f(AV) | 15 30 | А |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | per diode | IFSM | 250 | А |
| Typical junction capacitance (VR=4V, f=1MHz) | | Сı | 650 | pF |
| Typical thermal resistance per diode | (Note 1) | Rөjc | 2 | °C/W |
| Operating junction temperature range | | TJ | -55 to + 150 | °C |
| Storage temperature range | | Тѕтс | -55 to + 150 | °C |

Note: 1. Mounted on infinite heatsink.

ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

| SYMBOL | TEST CO | NDITIONS | MIN. | TYP. | MAX. | UNIT |
|--------|--|-------------------|------------------|--------------------------------------|-------------------------------|----------------|
| VBR | I R=0.5mA | | 60 | - | - | V |
| VF | I F=3A I F=5A I F=15A I F=3A I F=5A I F=15A | TJ=25°C TJ=125°C | - - - - | 0.36 0.40 0.55 0.29 0.35 | - - 0.59 - - - | V |
| İR | VR=42V VR=60V | TJ=25°C | - | 30 | 220 | μA μA mA |
| | VBR Vf | VBR | VBR | VBR | VBR | VBR |





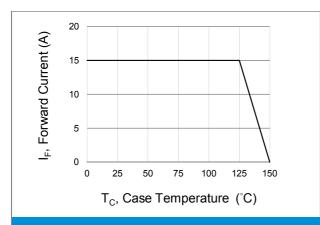


Fig.1 Forward Current Derating Curve

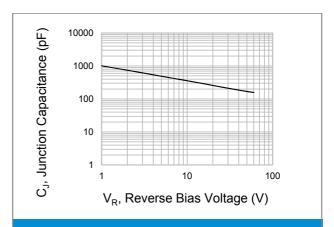


Fig.2 Typical Junction Capacitance

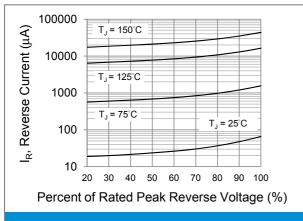


Fig.3 Typical Reverse Characteristics

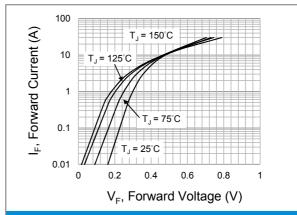


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

SBM3060VCT_T0_00001

For example:



| 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) | Α | N/A | 0 | HF | 0 | serial number | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | |
| Tube Packing (T/P) | Т | 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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