**特征 Features**

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 高温焊接保证 High temperature soldering guaranteed:
260°C/10 秒, 0.375" (9.5mm) 引线长度。
260°C/10 seconds, 0.375" (9.5mm) lead length,
- 引线可承受5 磅 (2.3kg) 拉力。5 lbs. (2.3kg) tension
- 引线 and 管体皆符合RoHS标准。
Lead and body according with RoHS standard

机械数据 Mechanical Data

- 端子: 镀锡轴向引线 Terminals: Plated axial leads
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和电参数 TA = 25°C 除非另有规定。

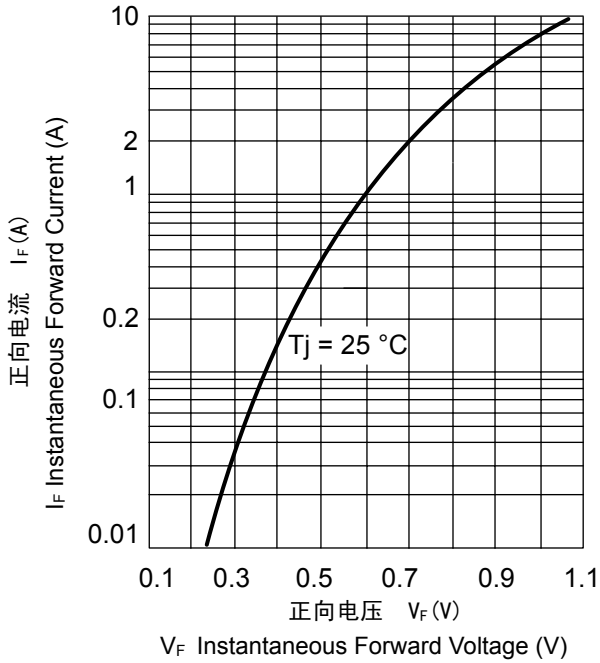
Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | SB5150 | SB5200 | 单位 Unit |
|--|-----------------|--------------|--------|------------|
| 最大峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 150 | 200 | V |
| 最大反向有效值电压 Maximum RMS voltage | $V_{R(RMS)}$ | 105 | 140 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 150 | 200 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | I_{FM} | 5.0 | | A |
| 最大正向电压降 IF = 5.0A Maximum forward voltage | V_F | 0.92 | 0.95 | V |
| 正向峰值浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 150 | | A |
| 最大反向漏电流 TA = 25°C Maximum reverse current TA = 100°C | I_R | 0.5 | 50 | mA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 15 | | °C/W |
| 典型结电容 VR = 4.0V f = 1.0MHz Type junction capacitance | C_j | 120 | | pF |
| 工作温度和存储温度 Operating junction and storage temperature range | T_J, T_{STG} | -55 --- +150 | | °C |

特性曲线 Characteristic Curves

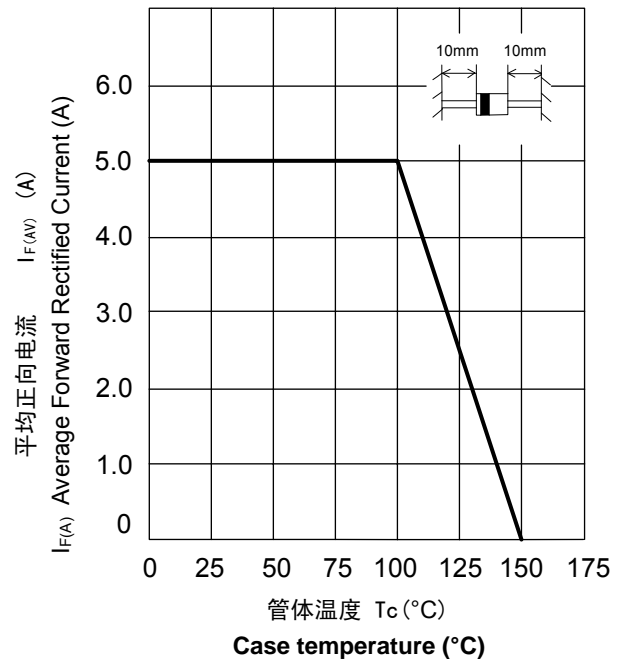
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT

