

## 表面安装普通整流二极管

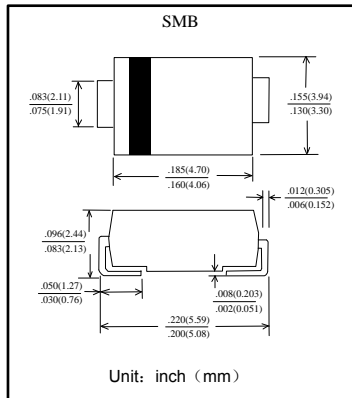
反向电压 50 --- 1000 V

正向电流 2.0 A

## Surface Mount General Rectifier

Reverse Voltage 50 --- 1000 V

Forward Current 2.0 A



## 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力较强 High forward surge capability
- 高温焊接保证 High temperature soldering guaranteed:  
260°C/10 秒 seconds at terminals
- 引线 and 管体皆符合RoHS标准。  
Lead and body according with RoHS standard

## 机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 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。

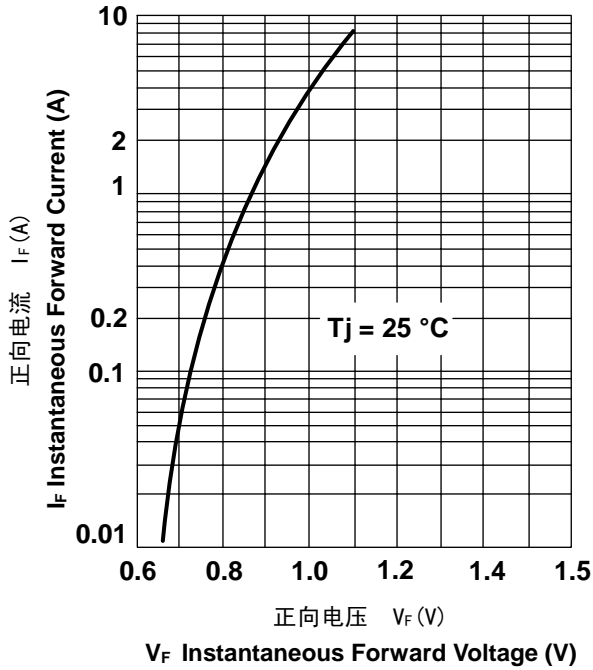
Maximum Ratings &amp; Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

|  | 符号<br>Symbols   | S2A          | S2B | S2D | S2G | S2J | S2K | S2M  | 单位<br>Unit |
|--|-----------------|--------------|-----|-----|-----|-----|-----|------|------------|
| 最大峰值反向电压<br>Maximum repetitive peak reverse voltage                              | $V_{RRM}$       | 50           | 100 | 200 | 400 | 600 | 800 | 1000 | V          |
| 最大反向有效值电压<br>Maximum RMS voltage   | $V_{R(RMS)}$    | 35           | 70  | 140 | 280 | 420 | 560 | 700  | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | $V_{DC}$        | 50           | 100 | 200 | 400 | 600 | 600 | 1000 | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current                          | $I_{AV}$        | 2.0          |     |     |     |     |     |      | A          |
| 最大正向电压降 IF = 2.0A<br>Maximum forward voltage                                     | $V_F$           | 1.1          |     |     |     |     |     |      | V          |
| 正向峰值浪涌电流 8.3ms 单一正弦半波<br>Peak forward surge current 8.3 ms single half sine-wave | $I_{FSM}$       | 50           |     |     |     |     |     |      | A          |
| 最大反向漏电流 TA = 25°C<br>Maximum reverse current TA = 100°C                          | $I_R$           | 5<br>125     |     |     |     |     |     |      | uA         |
| 典型热阻 Typical thermal resistance  | $R_{\theta JA}$ | 53           |     |     |     |     |     |      | °C/W       |
| 典型结电容 VR = 4.0V f = 1.0MHz<br>Type junction capacitance                          | $C_j$           | 30           |     |     |     |     |     |      | pF         |
| 工作温度和存储温度<br>Operating junction and storage temperature range                    | $T_j, T_{STG}$  | -55 --- +150 |     |     |     |     |     |      | °C         |

特性曲线 Characteristic Curves

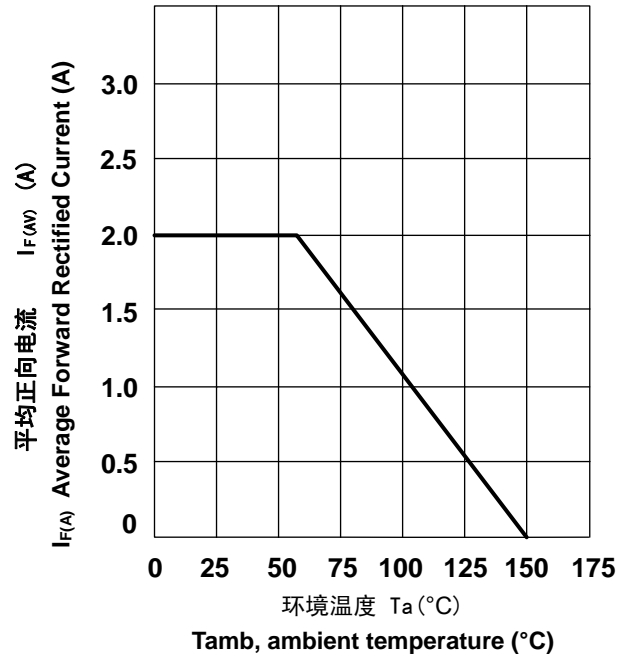
正向特性曲线 (典型值)

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

