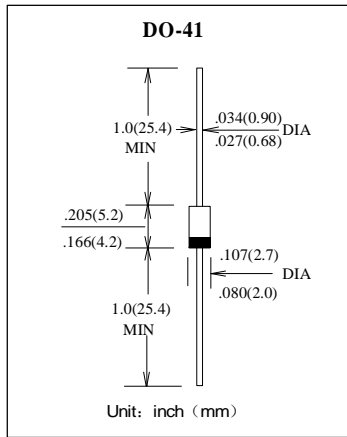


SR120 SR1100

塑封肖特基二极管

PLASTIC SCHOTTKY BARRIER RECTIFIER



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:
250°C/10 秒, 0.375" (9.5mm) 引线长度。
250°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

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。

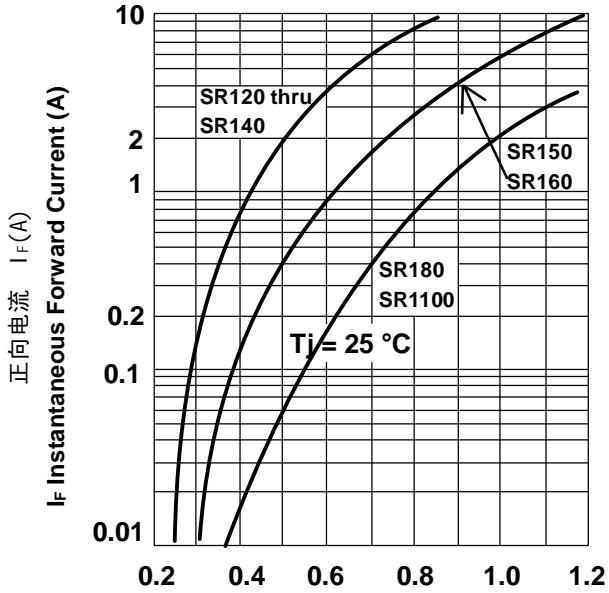
Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| | 符号 Symbols | SR 120 | SR 130 | SR 140 | SR 150 | SR 160 | SR 180 | SR 1100 | 单位 Unit |
|--|-----------------|--------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| 最大峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| 最大反向有效值电压 Maximum RMS voltage | $V_{R(RMS)}$ | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | I_{FM} | 1.0 | | | | | | | A |
| 最大正向电压降 @ $I_F = 1.0A$ Maximum forward voltage | V_F | 0.55 | | 0.7 | | 0.85 | | V | |
| 正向峰值浪涌电流, 100 μs 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 30 | | | | | | | A |
| 最大反向漏电流 @ $T_A = 25^\circ C$ Maximum reverse current @ $T_A = 100^\circ C$ | I_R | 0.5 | | | | 10 | | | mA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 50 | | | | | | | °C/W |
| 典型结电容 VR = 4.0V f = 1.0MHz Type junction capacitance | C_j | 110 | | | 80 | | | | pF |
| 工作温度和存储温度 Operating junction and storage temperature range | T_j, T_{STG} | -50 --- +150 | | | | | | | °C |

特性曲线 Characteristic Curves

正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC

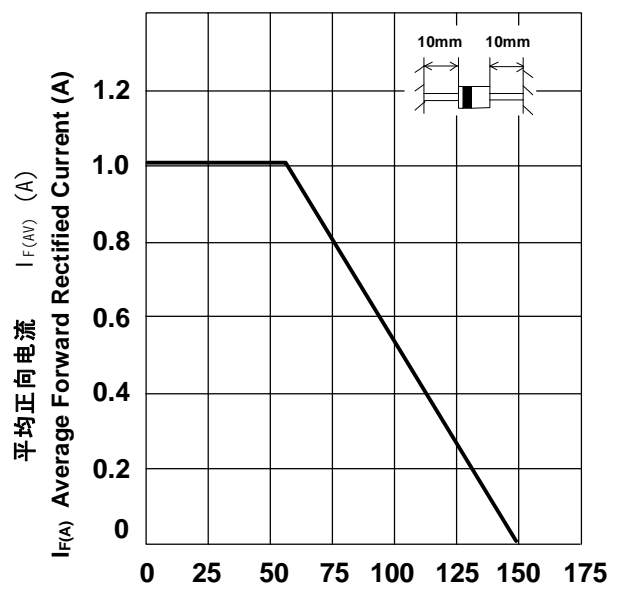


正向电压 V_F (V)

V_F Instantaneous Forward Voltage (V)

正向电流降额曲线

FORWARD CURRENT DERATING CURVE

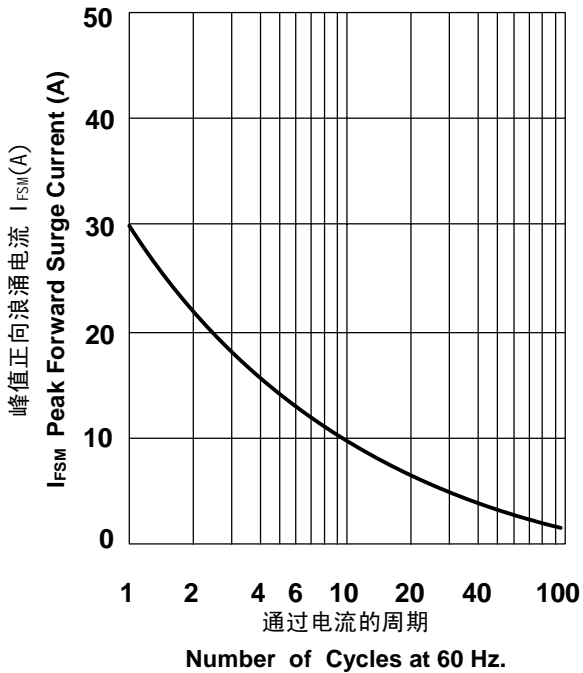


环境温度 T_a ($^\circ\text{C}$)

T_{amb} , ambient temperature ($^\circ\text{C}$)

浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



通过电流的周期

Number of Cycles at 60 Hz.