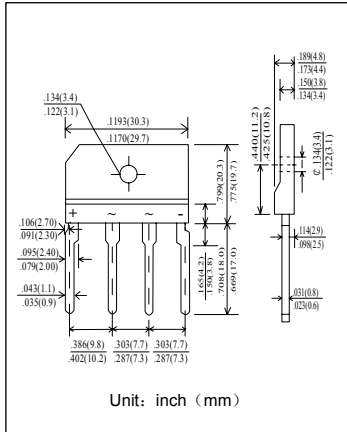




Single-phase Silicon Bridge Rectifier

D6SB20 THRU D6SB80

Reverse Voltage 200 to 800 V
Forward Current 6.0A



特征 Features

- 低的反向漏电流 Low reverse leakage
- 较强的正向浪涌承受能力 High forward surge capability
- 浪涌承受能力: 170 A Surge overload rating: 170 Amperes peak

机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded Plastic
- 极性: 标记模压或印于本体 Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any
- 重量: 4.6 克 Weight: 4.6 Grams

极限值和温度特性 TA = 25°C 除非另有规定。

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

| | 符号 Symbols | D6SB20 | D6SB40 | D6SB60 | D6SB80 | 单位 Unit |
|--|-----------------|--------------|--------|--------|--------|--------------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 200 | 400 | 600 | 800 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 140 | 280 | 420 | 560 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 200 | 400 | 600 | 800 | V |
| 最大正向平均整流电流 加散热片 $T_c = 111^\circ\text{C}$ Maximum average forward rectified current 无散热片 $T_a = 25^\circ\text{C}$ | $I_{F(AV)}$ | 6.0 | | | | A |
| | | 2.8 | | | | |
| 峰值正向浪涌电流 8.3ms 单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 170 | | | | A |
| 最大反向峰值电流 @ $T_A = 75^\circ\text{C}$ Maximum peak reverse current full cycle | $I_{R(AV)}$ | 30 | | | | μA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 6 | | | | $^\circ\text{C/W}$ |
| 工作结温和存储温度 Operating junction and storage temperature range | T_j, T_{STG} | -50 --- +150 | | | | $^\circ\text{C}$ |

电特性 TA = 25°C 除非另有规定。

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

| | 符号 Symbols | D6SB20 | D6SB40 | D6SB60 | D6SB80 | 单位 Unit |
|---|---------------|--------|--------|--------|--------|---------------|
| 最大正向电压 $I_F = 3.0\text{A}$ Maximum forward voltage | V_F | 1.05 | | | | V |
| 最大反向电流 $T_A = 25^\circ\text{C}$ Maximum reverse current | I_R | 10 | | | | μA |
| 典型结电容 $V_R = 4.0\text{V}, f = 1\text{MHz}$ Type junction capacitance | C_j | 40 | | | | pF |



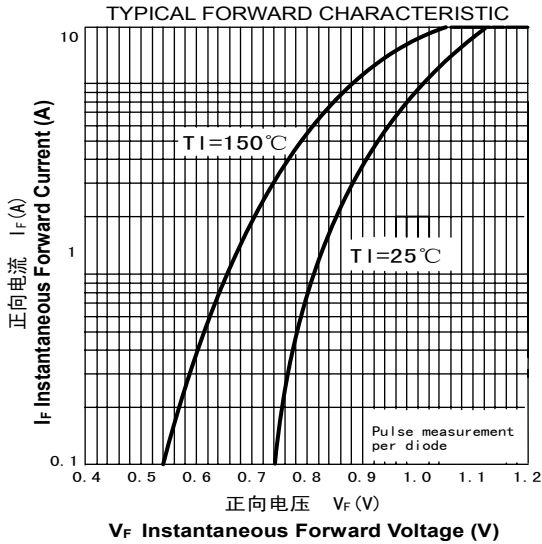
Single-phase Silicon Bridge Rectifier

D6SB20 THRU D6SB80

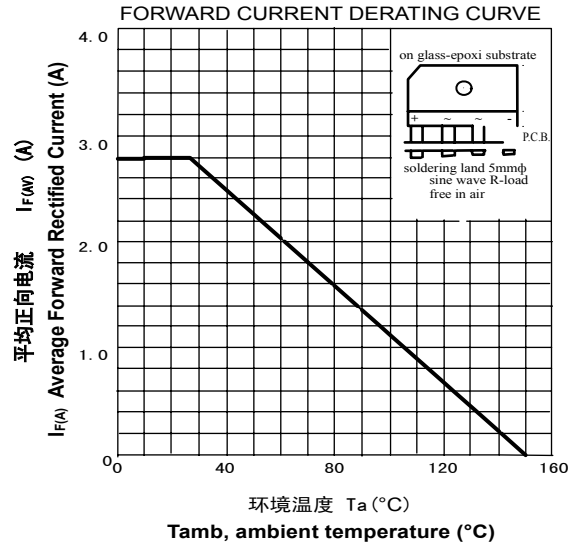
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Characteristic Curves

正向特性曲线 (典型值)

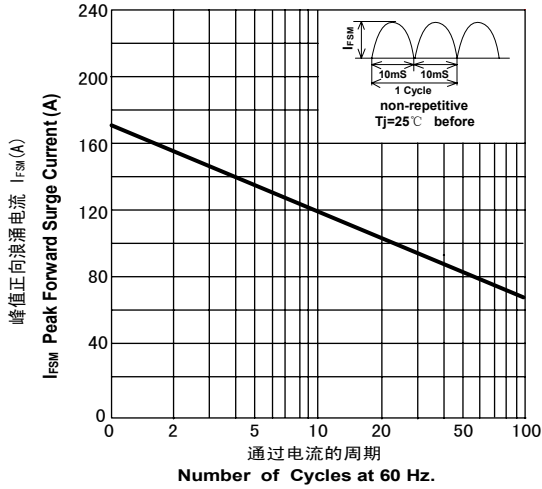


正向电流降额曲线



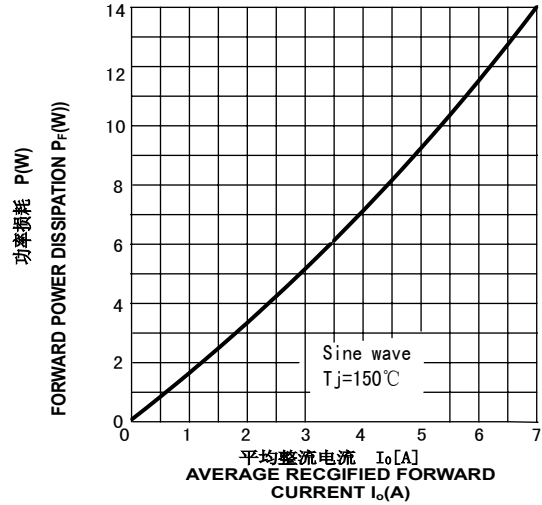
浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



功率损耗曲线

FORWARD POWER DISSIPATION



正向电流降额曲线

FORWARD CURRENT DERATING CURVE

