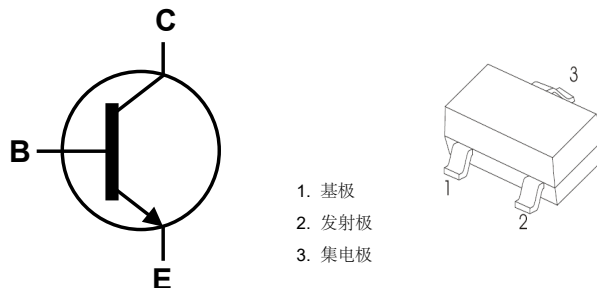


特点

NPN晶体三极管
环氧实体封装

质量执行标准

七专“G”级：
QZJ840611 Q/BSJ 320018-2018
国标II类：
GB/T 12560-1999 GB 4589.1-2006-T

SOT-323封装图示及引脚功能定义

额定值 (T_a=25℃, 除非另行标注)

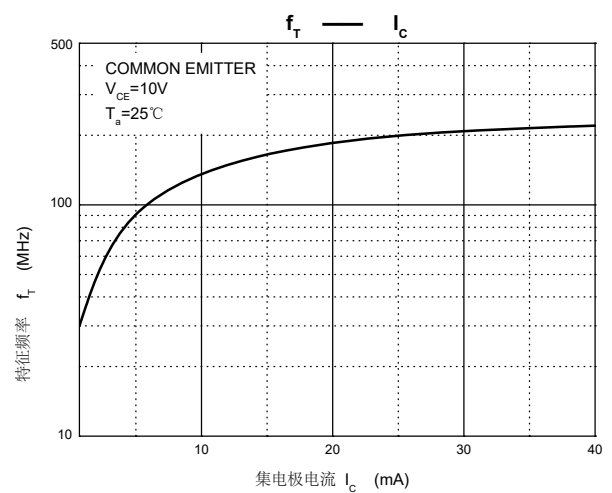
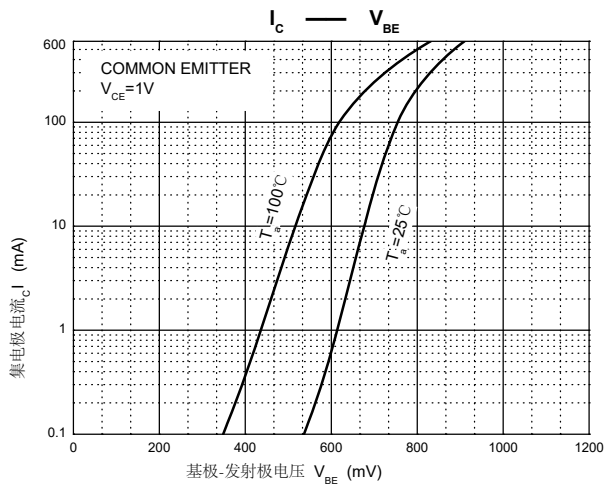
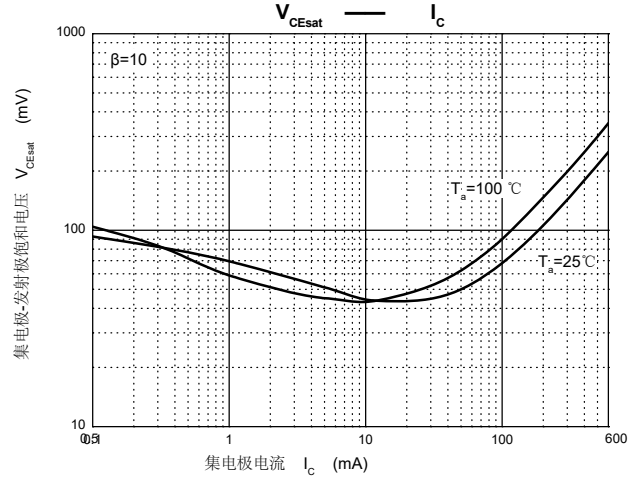
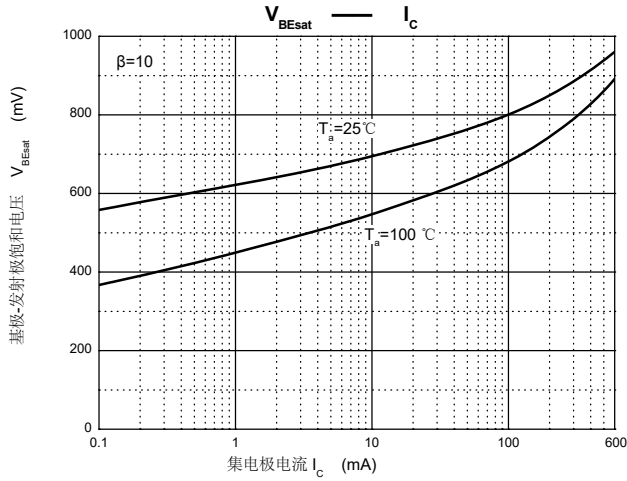
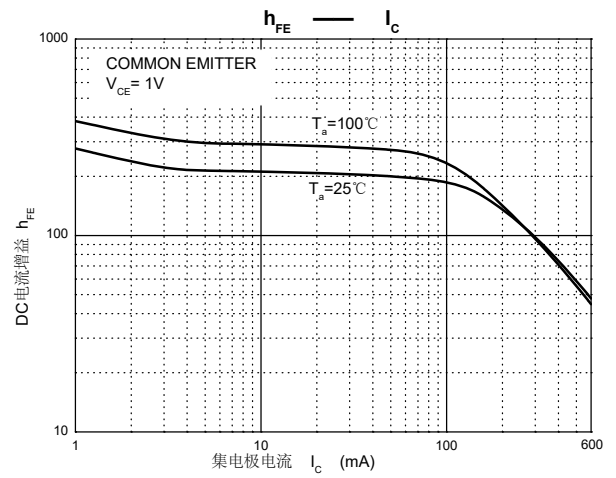
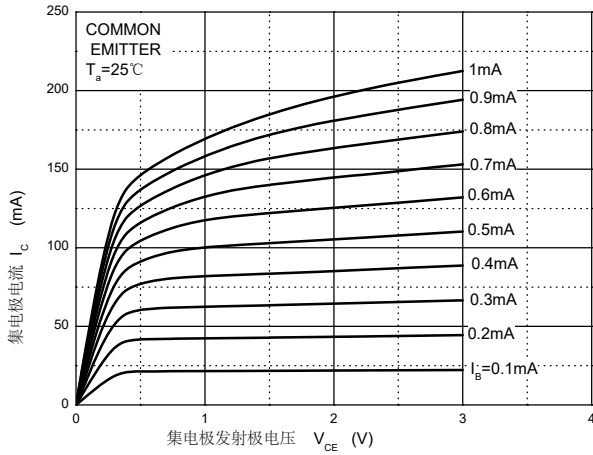
| 符号 | 参数 | 额定值 | 单位 |
|------------------|-----------|---------|----|
| V _{CB0} | 集电极-基极电压 | 60 | V |
| V _{CE0} | 集电极-发射极电压 | 40 | V |
| V _{EB0} | 发射极-基极电压 | 6 | V |
| I _C | 集电极连续电流 | 0.6 | A |
| P _D | 集电极耗散功率 | 0.2 | W |
| T _j | 结温 | 150 | ℃ |
| T _{stg} | 储存温度范围 | -55-150 | ℃ |

电特性 ($T_a=25^\circ\text{C}$, 除非另行标注)

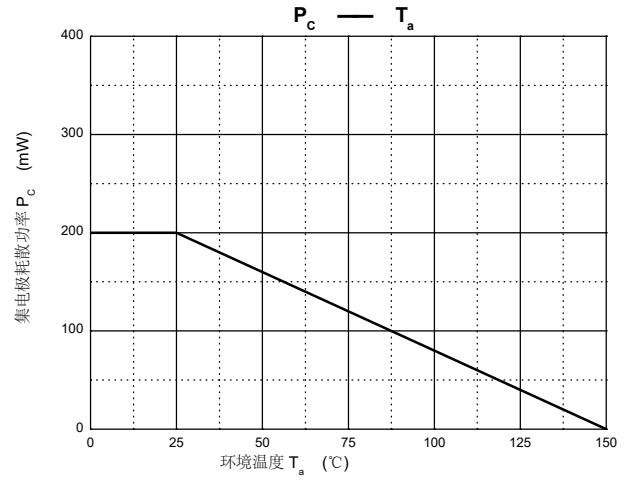
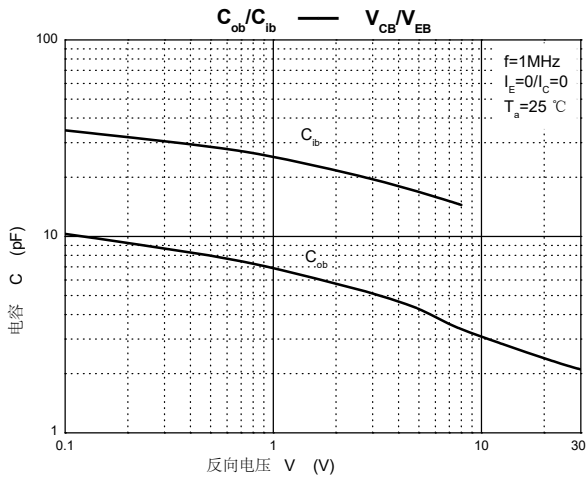
| 参数 | 符号 | 测试条件 | 最小值 | 典型值 | 最大值 | 单位 |
|-------------|---------------|---|------|-----|------|-----|
| 集电极-基极击穿电压 | $V_{(BR)CBO}$ | $I_C=100\mu\text{A}, I_E=0$ | 60 | | | V |
| 集电极-发射极击穿电压 | $V_{(BR)CEO}$ | $I_C=1\text{mA}, I_B=0$ | 40 | | | V |
| 发射极-基极击穿电压 | $V_{(BR)EBO}$ | $I_E=100\mu\text{A}, I_C=0$ | 6 | | | V |
| 集电极截止电流 | I_{CBO} | $V_{CB}=35\text{V}, I_E=0$ | | | 100 | nA |
| 基极截止电流 | I_{CEO} | $V_{CE}=35\text{V}, I_B=0$ | | | 500 | nA |
| 直流放大倍数 | h_{FE} | $V_{CE}=1\text{V}, I_C=100\mu\text{A}$ | 20 | | | |
| | | $V_{CE}=1\text{V}, I_C=1\text{mA}$ | 40 | | | |
| | | $V_{CE}=1\text{V}, I_C=10\text{mA}$ | 80 | | | |
| | | $V_{CE}=1\text{V}, I_C=150\text{mA}$ | 100 | | 300 | |
| | | $V_{CE}=2\text{V}, I_C=500\text{mA}$ | 40 | | | |
| 集电极-发射极饱和电压 | $V_{CE(sat)}$ | $I_C=150\text{mA}, I_B=15\text{mA}$ | | | 0.4 | V |
| | | $I_C=500\text{mA}, I_B=50\text{mA}$ | | | 0.75 | V |
| 基极发射极饱和电压 | $V_{BE(sat)}$ | $I_C=150\text{mA}, I_B=15\text{mA}$ | 0.75 | | 0.95 | V |
| | | $I_C=500\text{mA}, I_B=50\text{mA}$ | | | 1.2 | V |
| 特征频率 | f_T | $V_{CE}=10\text{V}, I_C=20\text{mA}, f=100\text{MHz}$ | 250 | | | MHz |
| 集电极输出电容 | C_{ob} | $V_{CB}=5\text{V}, I_E=0, f=1\text{MHz}$ | | | 6.5 | pF |

电特性曲线

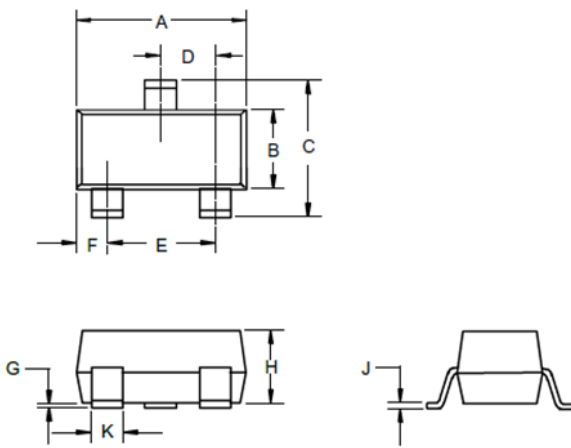
静态特性



电特性曲线



封装尺寸



| DIMENSIONS | | | | | |
|------------|--------------|------|--------------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | .071 | .087 | 1.80 | 2.20 | |
| B | .045 | .053 | 1.15 | 1.35 | |
| C | .083 | .096 | 2.10 | 2.45 | |
| D | .026 Nominal | | 0.65 Nominal | | |
| E | .047 | .055 | 1.20 | 1.40 | |
| F | .012 | .016 | .30 | .40 | |
| G | .000 | .004 | .000 | .100 | |
| H | .035 | .039 | .90 | 1.00 | |
| J | .004 | .010 | .100 | .250 | |
| K | .006 | .016 | .15 | .40 | |