



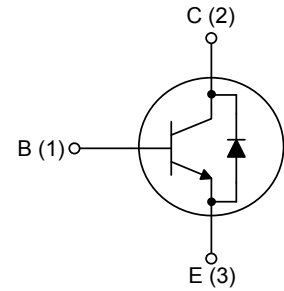
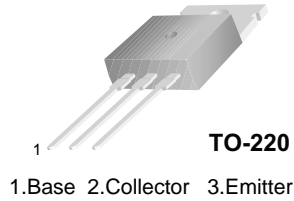
13005D

产品描述

高电压开关,高速开关

产品特点

400V,4A



极限值 (TC=25°C)

| 符号 | 参数 | 值 | 单位 |
|-----------|------------------|---------|----|
| V_{CBO} | 集-基耐压 | 700 | V |
| V_{CEO} | 集-射耐压 | 400 | V |
| V_{EBO} | 射-基耐压 | 9 | V |
| I_C | 集电极电流(直流) | 4 | A |
| I_{CP} | 集电极电流(瞬态) | 8 | A |
| I_B | 基极电流 | 2 | A |
| P_C | 集电极耗散功率(TC=25°C) | 75 | W |
| T_J | 结温 | 150 | °C |
| T_{STG} | 存储温度 | -65~150 | °C |

特性参数值(TC=25°C)

| 符号 | 参数名称 | 测试条件 | 最小值 | 典型值 | 最大值 | 单位 |
|-----------------|----------|--------------------------------------------------------------|---------|-----|-----------------|-------------|
| $BV_{CEO}(sus)$ | 集-射击穿电压 | $I_C=10mA, I_B=0$ | 400 | | | V |
| I_{EBO} | 射-基截止漏电流 | $V_{EB}=9V, I_C=0$ | | | 10 | uA |
| h_{FE} | 直流增益 | $V_{CE}=5V, I_C=1A$ $V_{CE}=5V, I_C=2A$ | 10 8 | | 60 40 | |
| $V_{CE}(sat)$ | 集-射饱和压降 | $I_C=1A, I_B=0.2A$ $I_C=2A, I_B=0.5A$ $I_C=4A, I_B=1A$ | | | 0.5 0.6 1 | V V V |
| $V_{BE}(sat)$ | 基-射饱和压降 | $I_C=1A, I_B=0.2A$ $I_C=2A, I_B=0.5A$ | | | 1.2 1.6 | V V |
| C_{ob} | 输出电容 | $V_{CB}=10V, f=0.1MHz$ | | 65 | | pF |
| f_T | 特征频率 | $V_{CE}=10V, I_C=0.5A$ | 4 | | | MHz |
| t_{ON} | 开通时间 | $V_{CC}=125V, I_C=2A$ | | | 0.8 | μs |
| t_{STG} | 存储时间 | $I_{B1} = -I_{B2} = 0.4A$ | | | 4 | μs |
| t_F | 下降时间 | $R_L=62.5\Omega$ | | | 0.9 | μs |

特性曲线

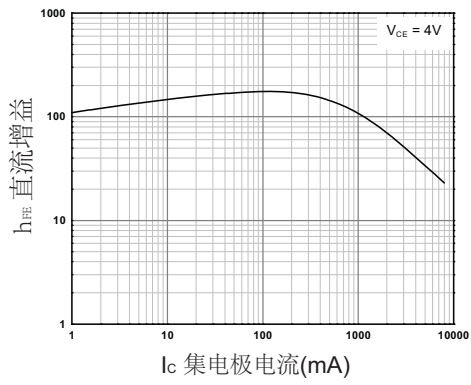


图1. 直流增益

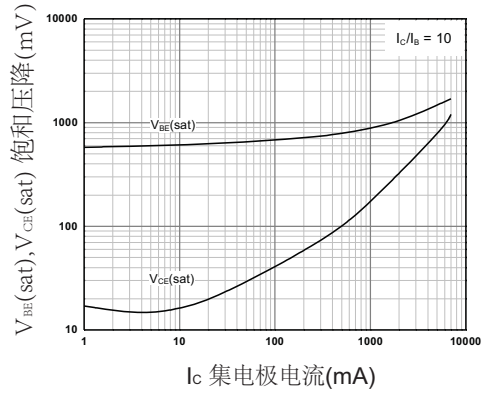


图2. B-E饱和压降,C-E饱和压降

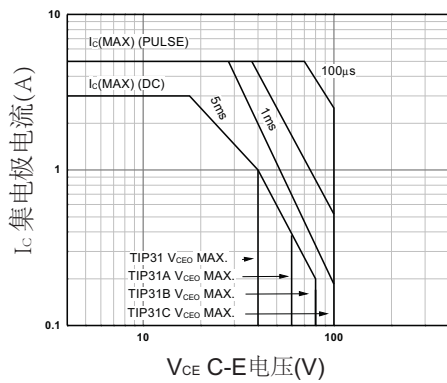


图3. 安全使用范围

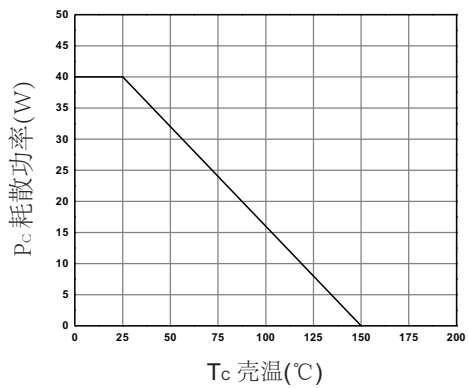


图4. 额定功率

特性曲线

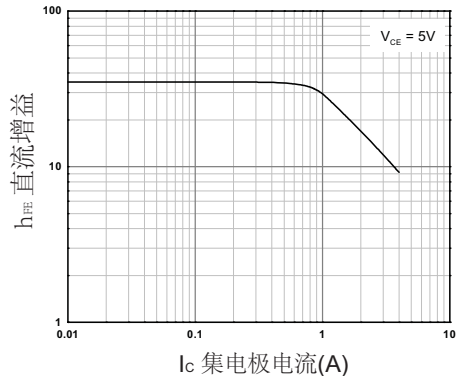


图1. 直流增益

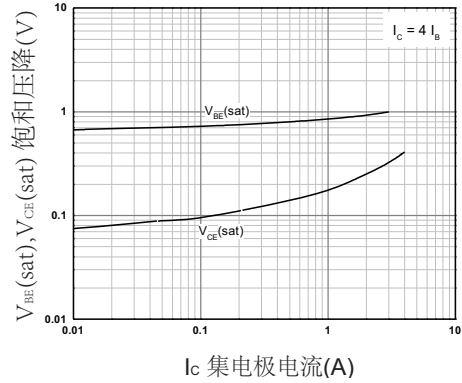


图2. B-E饱和压降,C-E饱和压降

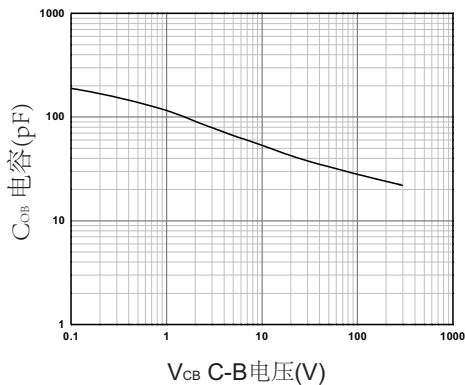


图3. 集电极输出电容

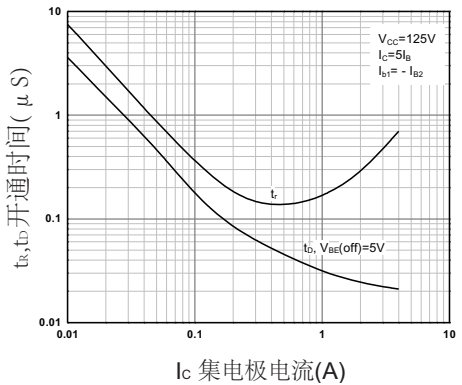


图4. 开通时间

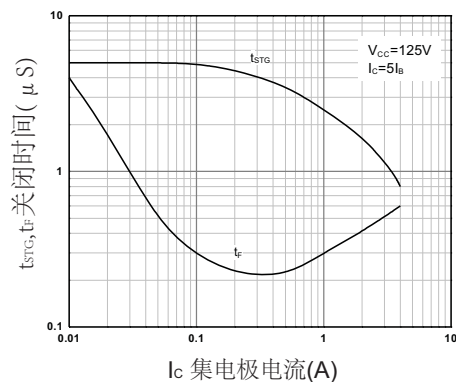


图5. 关闭时间

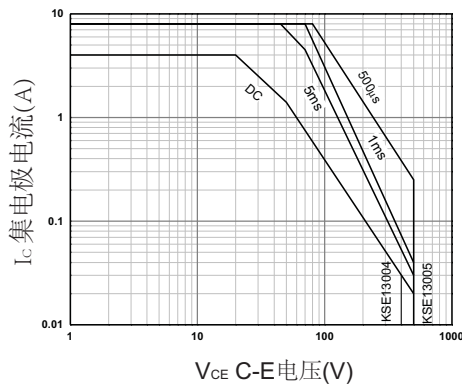


图6. 安全使用范围

特性曲线

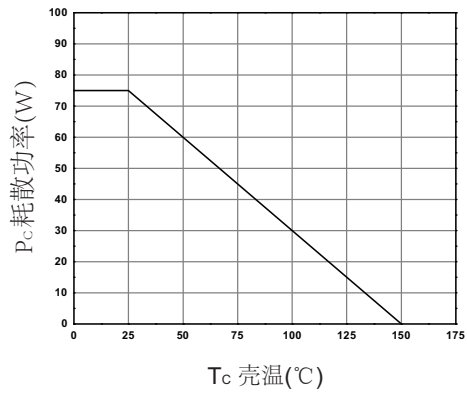
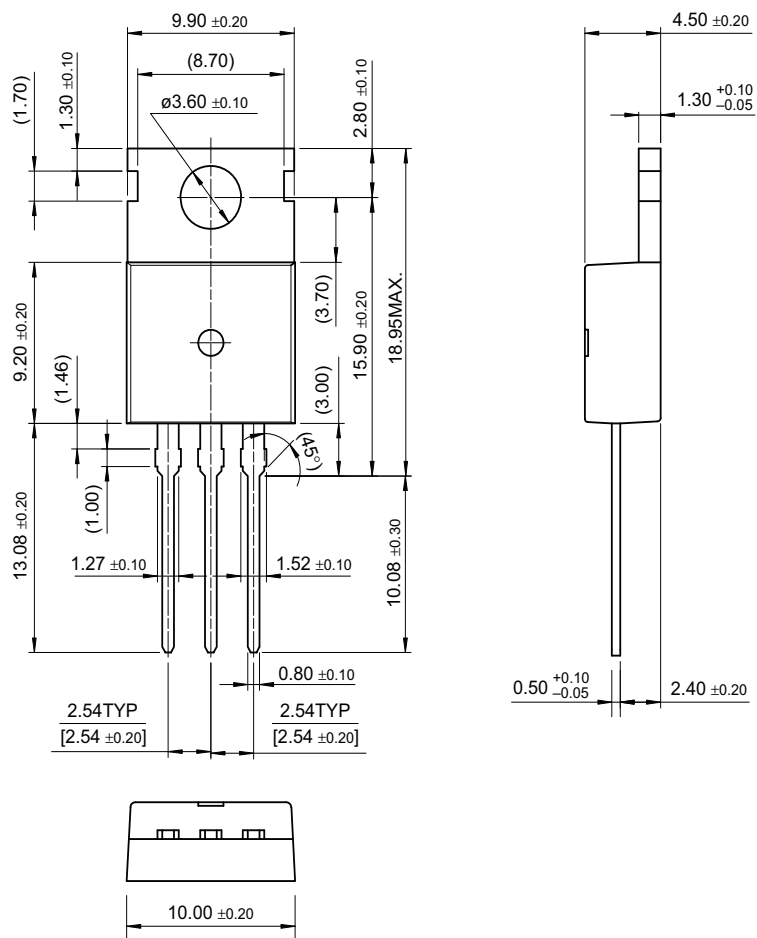


图7. 额定功率

外形尺寸

TO-220



尺寸单位:毫米