

■ 描述 DESCRIPTIONS

SOT-23 塑封封装 PNP 三极管。PNP transistor in a SOT-23 Plastic Package.

■ 应用 APPLICATIONS

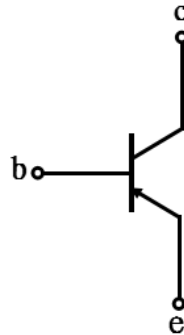
常规应用、开关电路。General purpose application,switching.

■ 引脚说明 PIN ASSIGNMENT



- 1 BASE
- 2 EMITTER
- 3 COLLECTOR

■ 内部等效电路 Equivalent Circuit



■ 型号构成 Name rule

| 基本名称 Name | | | 辅助识别代码 Additional code | | | |
|----------------|----------------|-----------------|---------------------------|-------------------|-----------------|--------------------------------------|
| 第一部分 Part 1 | 第二部分 Part 2 | 第三部分 Part 3 | 第四部分 Part 4 | 第五部分 Part 5 | 第六部分 Part 6 | 第七部分 Part 7 |
| 品牌 Brand | 产品类别 Type | 产品型号 Model | 分档 Value | 分隔号 Separatrix | 封装代码 Package | 附加码 (备用) Extra-code |
| FH | T : 三极管 | A8550 (0.5A) | O Y G | "—" | M: SOT-23 | E : ROHS G: 绿色封装 Green Package |

■ 额定值 ABSOLUTE MAXIMUM RATINGS (TC=25°C unless otherwise noted)

| 特性参数 CHARACTERISTIC | 符号 SYMBOL | 额定值 RATING | 单位 UNIT |
|--|--------------|---------------|------------|
| 集电极-基极电压 Collector-Base Voltage | V_{CBO} | -40 | Vdc |
| 集电极-发射极电压 Collector-Emitter Voltage | V_{CEO} | -25 | Vdc |
| 发射极-基极电压 Emitter-Base Voltage | V_{EBO} | -5.0 | Vdc |
| 集电极电流-连续 Collector Current-Continuous | I_C | -0.5 | Adc |
| 基极电流 Base Current | I_B | -160 | mAdc |
| 集电极耗散功率 Collector Power Dissipation | P_C | 300 | mW |
| 结温 Junction Temperature | T_j | 150 | °C |
| 储存温度 Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

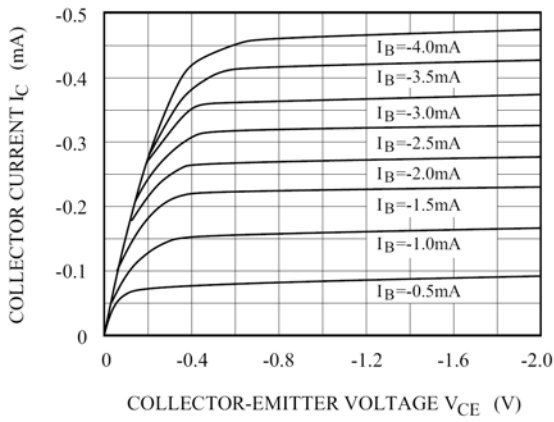
■ 电特性 ELECTRICAL CHARACTERISTICS

(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

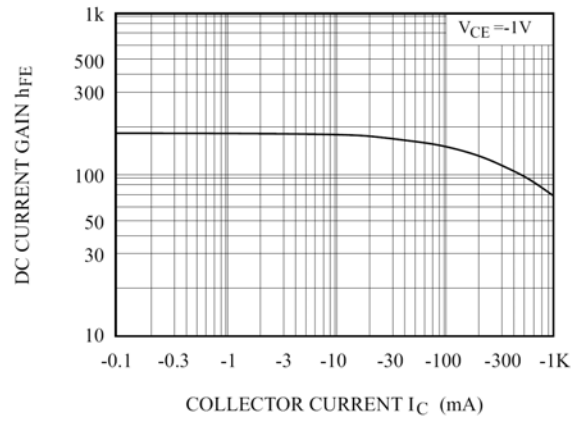
| Characteristic 特性参数 | Symbol 符号 | Test Condition 测试条件 | Min 最小值 | TYP 典型 | Max 最大值 | Unit 单位 |
|---|---------------|------------------------------------|------------|-----------|------------|------------|
| 集电极截止电流 Collector Cutoff Current | I_{CBO} | $V_{CB} = -30V, I_E = 0$ | — | — | -0.1 | μA |
| 发射极截止电流 Emitter Cutoff Current | I_{EBO} | $V_{EB} = -5V, I_C = 0$ | — | — | -0.1 | μA |
| 集电极-基极击穿电压 Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C = -100\mu A$ | -40 | — | — | V |
| 集电极-发射极击穿电压 Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -10mA$ | -25 | — | — | V |
| 发射极-基极击穿电压 Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E = -100\mu A$ | -5 | — | — | V |
| 直流电流增益 DC Current Gain | $h_{FE} (1)$ | $V_{CE} = -1V, I_C = -100mA$ | 85 | — | 360 | — |
| | $h_{FE} (2)$ | $V_{CE} = -1V, I_C = -500mA$ | 40 | — | — | |
| 集电极-发射极饱和压降 Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | — | — | -0.6 | V |
| 基极-发射极电压 Base-Emitter Voltage | V_{BE} | $V_{CE} = -1V, I_C = -10mA$ | — | -0.8 | -1.0 | V |
| 特征频率 Transition Frequency | f_T | $V_{CE} = -5V, I_C = -10mA$ | 100 | 120 | — | MHz |
| 输出电容 Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | — | 13 | 30 | pF |

■ 典型特性 TYPICAL CHARACTERISTICS

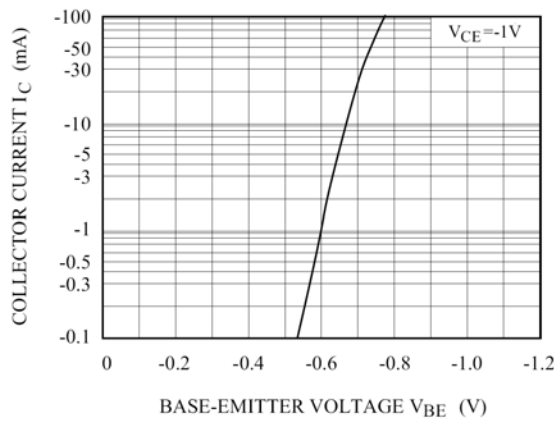
$I_C - V_{CE}$



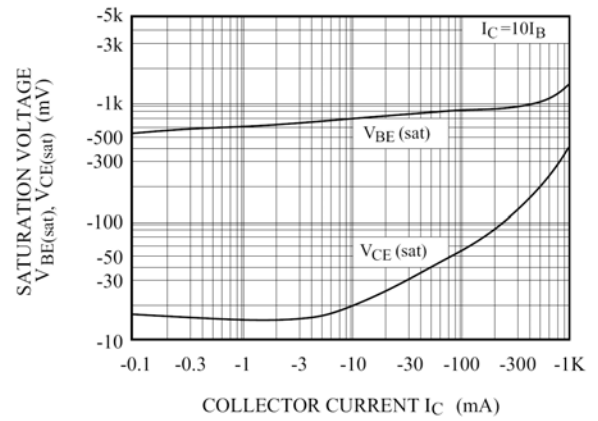
$h_{FE} - I_C$



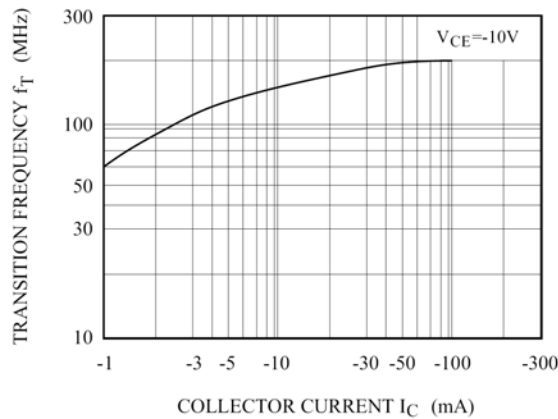
$I_C - V_{BE}$



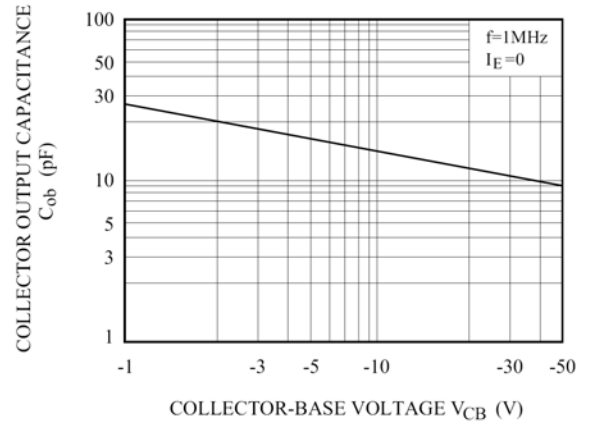
$V_{BE(sat)}, V_{CE(sat)} - I_C$

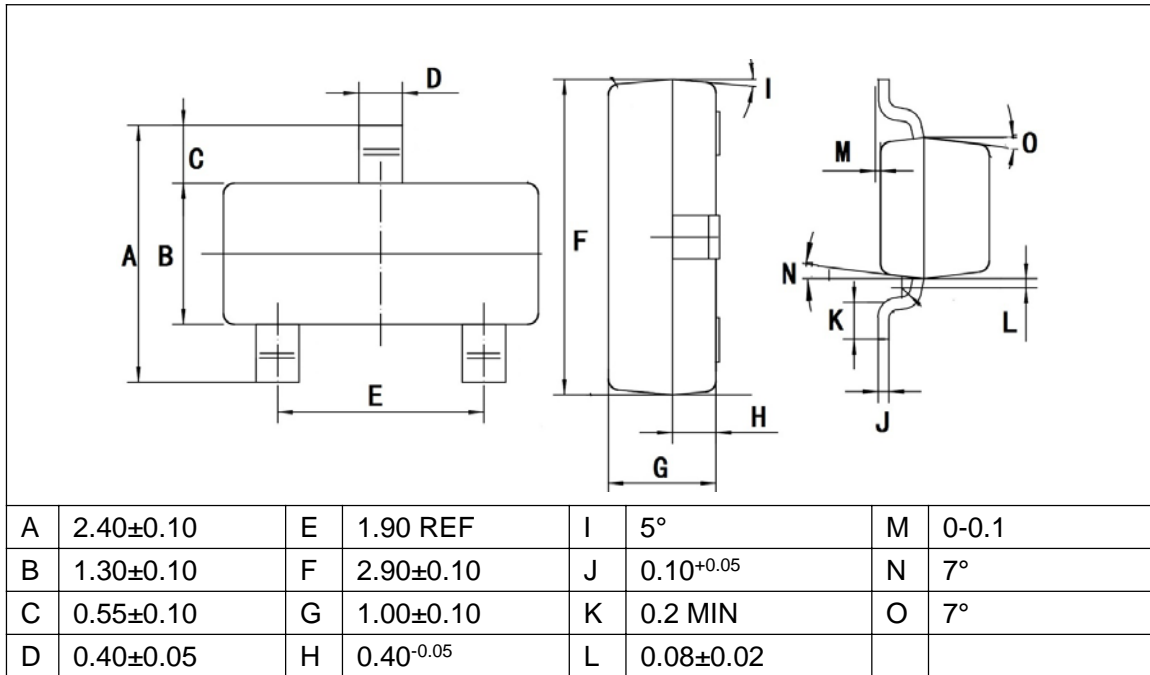
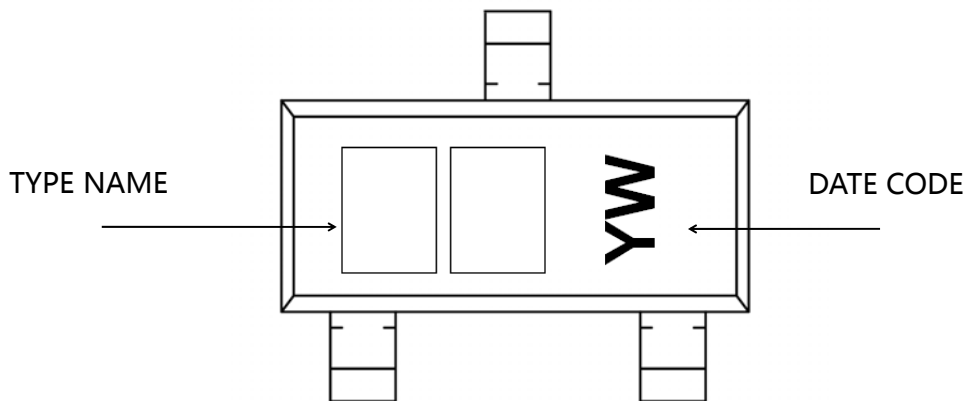


$f_T - I_C$



$C_{ob} - V_{CB}$



■ 外形尺寸 DIMENSION

■ 打标 DEVICE MARKING


| TYPE | FHTA8550O-ME | FHTA8550Y-ME | FHTA8550G-ME |
|----------|--------------|--------------|--------------|
| h_{FE} | 85 ~ 200 | 160 ~ 300 | 280~400 |
| MARK | 9O | 9Y | 9G |

■ 包装信息 PACKAGE INFORMATION

| 材料名称 Material Name | 颜色 Color | 尺寸 Size | 数量 Quantity | 备注 Note |
|-----------------------|--------------|---------------|--|---|
| 卷盘 Reel | 蓝色 Blue | 7 " *8mm | 3K/Reel | |
| 内盒 Inner Case | 黄色 Yellow | 185*185*140mm | 30K/盒 (10 盘/盒) 30K/Case (10 Reel/ Case) | OHO2 |
| 外箱 Outer Box | 黄色 Yellow | 460*400*210mm | 180K/箱 (6 盒/箱) 180K/Box (6 Case/Box) | OXO2 |
| 标签 Label | 白色 White | 68*40mm | — | 贴卷盘、内盒、外箱 Label on reel、inner case、 outer box |