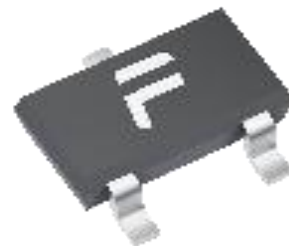
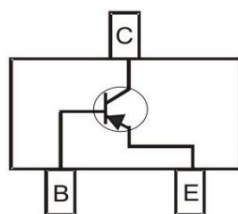


## SOT-23-3L Bipolar Transistor 双极型三极管

### ■ Features 特点

PNP Low Saturation Voltage 低饱和压降

### ■ Absolute Maximum Ratings 最大额定值



| Characteristic 特性参数                         | Symbol 符号                     | Rat 额定值                      | Unit 单位                     |
|---------------------------------------------|-------------------------------|------------------------------|-----------------------------|
| Collector-Base Voltage 集电极基极电压              | $V_{CBO}$                     | -40                          | V                           |
| Collector-Emitter Voltage 集电极发射极电压          | $V_{CEO}$                     | -30                          | V                           |
| Emitter-Base Voltage 发射极基极电压                | $V_{EBO}$                     | -6                           | V                           |
| Collector Current 集电极电流                     | $I_C$                         | -3000                        | mA                          |
| Power dissipation 耗散功率                      | $P_C(T_a=25^{\circ}\text{C})$ | 500                          | mW                          |
| Thermal Resistance Junction-Ambient 热阻      | $R_{\theta JA}$               | 250                          | $^{\circ}\text{C}/\text{W}$ |
| Junction and Storage Temperature<br>结温和储藏温度 | $T_J, T_{stg}$                | -55to+150 $^{\circ}\text{C}$ |                             |

### ■ Device Marking 产品打标

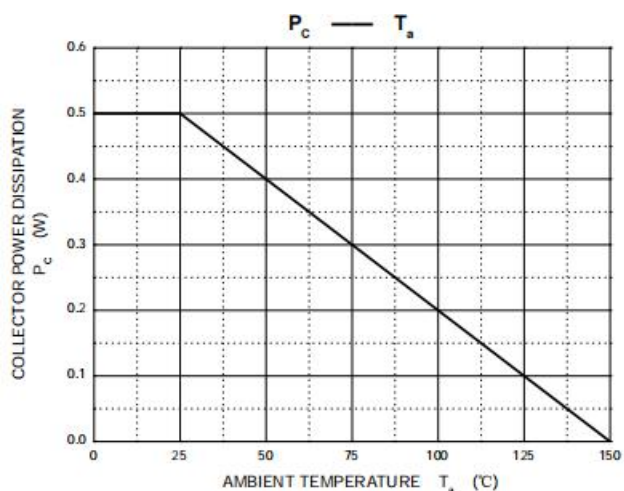
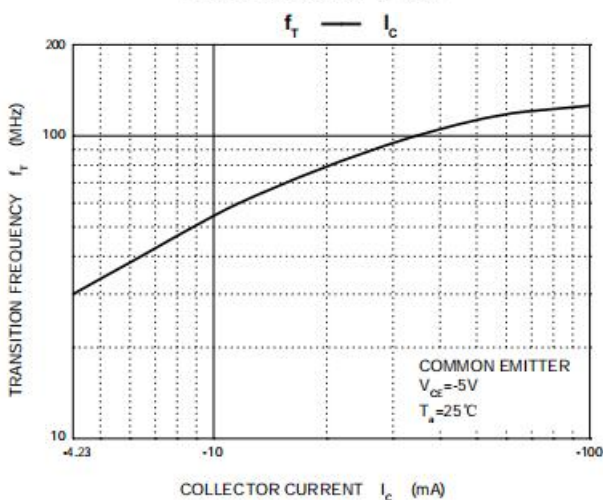
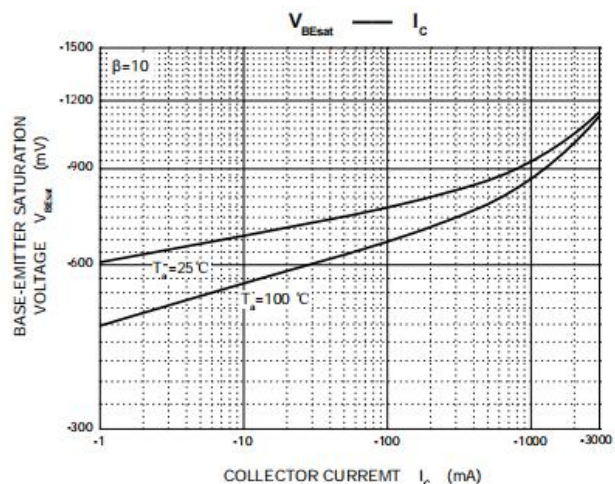
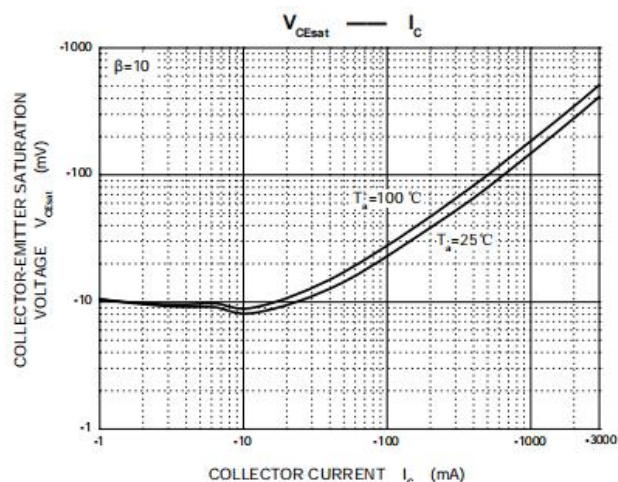
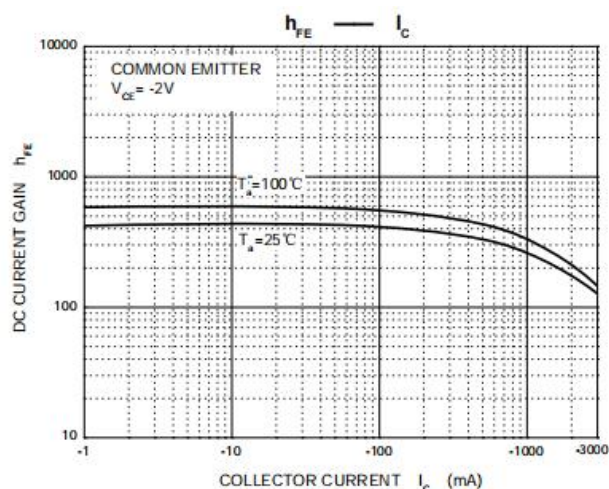
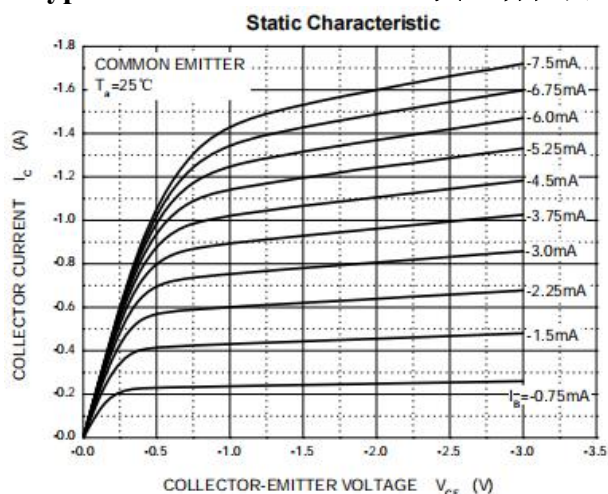
|          |           |            |            |             |
|----------|-----------|------------|------------|-------------|
| $H_{FE}$ | 60-120(R) | 100-200(O) | 160-320(Y) | 200-400(GR) |
| Mark     | B772      |            |            |             |

**■Electrical Characteristics 电特性**

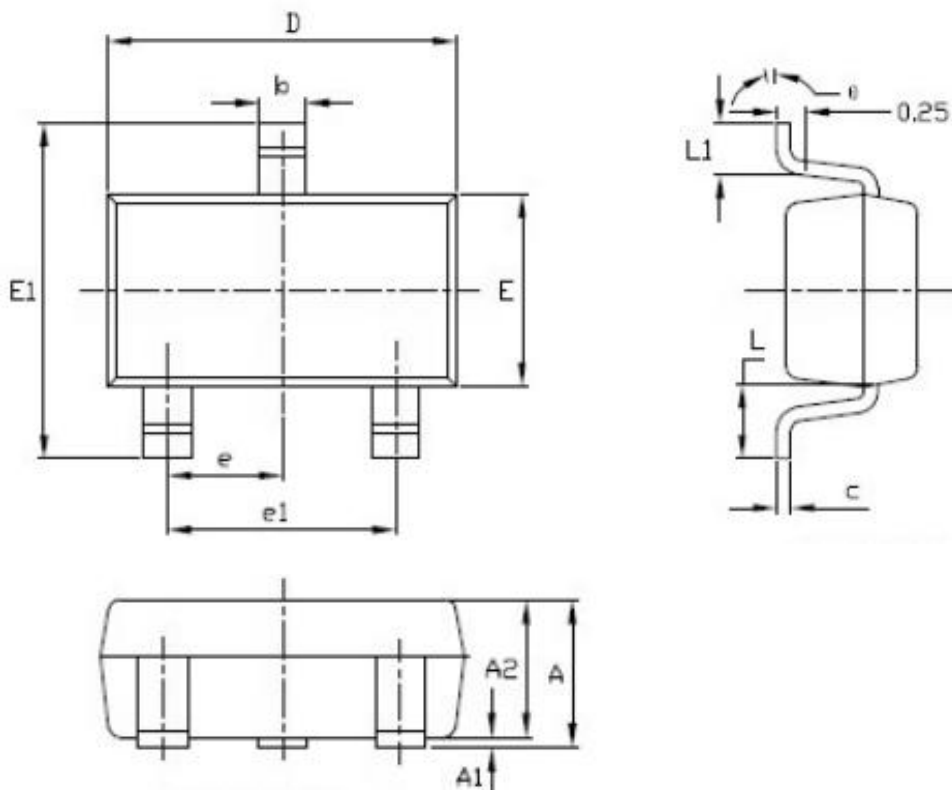
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

| Characteristic<br>特性参数                                                            | Symbol<br>符号  | Min<br>最小值 | Type<br>典型值 | Max<br>最大值 | Unit<br>单位 |
|-----------------------------------------------------------------------------------|---------------|------------|-------------|------------|------------|
| Collector-Base Breakdown Voltage<br>集电极基极击穿电压( $I_C = -100\mu A$ , $I_E = 0$ )    | $BV_{CBO}$    | -40        | —           | —          | V          |
| Collector-Emitter Breakdown Voltage<br>集电极发射极击穿电压( $I_C = -10mA$ , $I_B = 0$ )    | $BV_{CEO}$    | -30        | —           | —          | V          |
| Emitter-Base Breakdown Voltage<br>发射极基极击穿电压( $I_E = -100\mu A$ , $I_C = 0$ )      | $BV_{EBO}$    | -6         | —           | —          | V          |
| Collector-Base Leakage Current<br>集电极基极漏电流( $V_{CB} = -40V$ , $I_E = 0$ )         | $I_{CBO}$     | —          | —           | -1         | $\mu A$    |
| Collector-Emitter Leakage Current<br>集电极发射极漏电流( $V_{CE} = -30V$ , $I_B = 0$ )     | $I_{CEO}$     | —          | —           | -10        | $\mu A$    |
| Emitter-Base Leakage Current<br>发射极基极漏电流( $V_{EB} = -6V$ , $I_C = 0$ )            | $I_{EBO}$     | —          | —           | -1         | $\mu A$    |
| DC Current Gain<br>直流电流增益( $V_{CE} = -2V$ , $I_C = -1000mA$ )                     | $H_{FE}$      | 60         | —           | 400        |            |
| Collector-Emitter Saturation Voltage<br>集电极发射极饱和压降( $I_C = -2A$ , $I_B = -0.2A$ ) | $V_{CE(sat)}$ | —          | —           | -0.5       | V          |
| Base-Emitter Saturation Voltage<br>基极发射极饱和压降( $I_C = -2A$ , $I_B = -0.2A$ )       | $V_{BE(sat)}$ | —          | —           | -1.5       | V          |
| Transition Frequency<br>特征频率( $V_{CE} = -5V$ , $I_C = -100mA$ )                   | $f_T$         | —          | 80          | —          | MHz        |
| Output Capacitance<br>输出电容( $V_{CB} = -10V$ , $I_E = 0$ , $f = 1MHz$ )            | $C_{ob}$      | —          | 35          | —          | pF         |

■ Typical Characteristic Curve 典型特性曲线



■Dimension 外形封装尺寸



| Symbol | Dimensions In Millimeters |       | Dimensions In Inches |       |
|--------|---------------------------|-------|----------------------|-------|
|        | Min                       | Max   | Min                  | Max   |
| A      | 1.050                     | 1.250 | 0.041                | 0.049 |
| A1     | 0.000                     | 0.100 | 0.000                | 0.004 |
| A2     | 1.050                     | 1.150 | 0.041                | 0.045 |
| b      | 0.300                     | 0.500 | 0.012                | 0.020 |
| c      | 0.100                     | 0.200 | 0.004                | 0.008 |
| D      | 2.820                     | 3.020 | 0.111                | 0.119 |
| E      | 1.500                     | 1.700 | 0.059                | 0.067 |
| E1     | 2.650                     | 2.950 | 0.104                | 0.116 |
| e      | 0.900                     | 1.00  | 0.035                | 0.039 |
| e1     | 1.800                     | 2.000 | 0.071                | 0.079 |
| L      | 0.450                     | 0.650 | 0.018                | 0.026 |
| L1     | 0.300                     | 0.600 | 0.012                | 0.024 |
| θ      | 0°                        | 8°    | 0°                   | 8°    |