



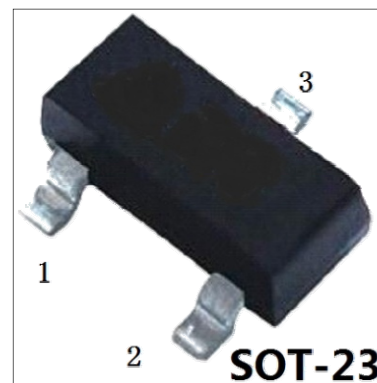
■ ■ 主要用途：通用运用程序 、 开关等。

Applications: .General purpose application, Switching application

■ ■ 特性

Features

| 特性参数<br>CHARACTERISTIC                 | 符号<br>SYMBOL | 额定值<br>RATING | 单位<br>UNIT |
|--|--------------|---------------|------------|
| 集电极-基极电压<br>Collector-Base Voltage     | $V_{CBO}$    | -40           | V          |
| 集电极-发射极电压<br>Collector-Emitter Voltage | $V_{CEO}$    | -25           | V          |
| 发射极-基极电压<br>Emitter-Base Voltage       | $V_{EBO}$    | -6            | V          |
| 集电极电流<br>Collector Current             | $I_C$        | -500          | mA         |
| 集电极耗散功率<br>Collector Power Dissipation | $P_C$        | 300           | mW         |
| 结温<br>Junction Temperature             | $T_j$        | 150           | °C         |
| 储存温度<br>Storage Temperature            | $T_{stg}$    | - 55~150      | °C         |



■ ■ 引脚说明

Pin assignment

| PIN NAME<br>管脚符号 | PIN NUMBER 引脚序号 | FUNCTION<br>功能 |
|------------------|-----------------|----------------|
|                  | SOT-23          |                |
| B                | 1               | BASE           |
| E                | 2               | EMITTER        |
| C                | 3               | COLLECTOR      |



■ ■ 电参数

Electrical Characteristics( TC = 25°C unless otherwise noted)

| 特性参数<br>CHARACTERISTIC                              | 符号<br>SYMBOL   | 测试条件<br>TEST CONDITIONS    | 最小值<br>MIN. | 典型值<br>TYP. | 最大值<br>MAX. | 单位<br>UNIT |
|---|----------------|----------------------------|-------------|-------------|-------------|------------|
| 直流电流增益<br>DC Current Gain                           | hFE            | VCE= -1V, Ic= -5mA         | 45          | 170         |             |            |
| 直流电流增益<br>DC Current Gain                           | hFE            | VCE= -1V, Ic= -50mA        | 85          | 160         | 300         |            |
| 直流电流增益<br>DC Current Gain                           | hFE            | VCE= -1V, Ic= -500mA       | 30          | 80          |             |            |
| 集电极-基极截止电流<br>Collector Cut-off Current             | IcBO           | VCB= -35V, IE=0            |             |             | -0.1        | μA         |
| 发射极-基极截止电流<br>Emitter Cut-off Current               | IEBO           | VEB= -6V, Ic=0             |             |             | -0.1        | μA         |
| 集电极-基极击穿电压<br>Collector-Base Breakdown Voltage      | BVcBO          | Ic= -0.1mA, IE=0           | -40         |             |             | V          |
| 集电极-发射极击穿电压<br>Collector-Emitter Breakdown Voltage  | BVcEO          | Ic= -1mA, IB=0             | -25         |             |             | V          |
| 发射极-基极击穿电压<br>Emitter-Base Breakdown Voltage        | BVEBO          | IE= -0.1mA, Ic=0           | -6          |             |             | V          |
| 基极-发射极电压<br>Base-Emitter Voltage                    | VBE(on)        | VCE= -1V, Ic= -10mA        |             | -0.66       | -1          | V          |
| 集电极-发射极饱和压降<br>Collector-Emitter Saturation Voltage | VCE(sat)       | Ic= -500mA,<br>IB= -50mA   |             | -0.28       | -0.6        | V          |
| 基极-发射极饱和压降<br>Base-Emitter Saturation Voltage       | VBE(sat)       | Ic= -500mA,<br>IB= -50mA   |             | -0.98       | -1.2        | V          |
| 电流增益-带宽乘积<br>Gain bandwidth product                 | f <sub>T</sub> | Ic= -50mA, VCE= -10V       | 100         | 200         |             | MHz        |
| 共基极输出电容<br>Common Base Output Capacitance           | Cob            | VCB= -10V, IE=0,<br>f=1MHz |             | 15          |             | PF         |



■■ 打标、分档

DEVICE MARKING

|               |         |
|---------------|---------|
| 打标<br>Marking | 2TY     |
| 分档<br>Value   | 200~300 |

■■ 尺寸图

DIMENSION

