



特点: 耐压高 开关速度快 安全工作区宽 符合 RoHS 规范

FEATURES : ■HIGH VOLTAGE CAPABILITY ■HIGH SPEED SWITCHING ■WIDE SOA ■RoHS COMPLIANT

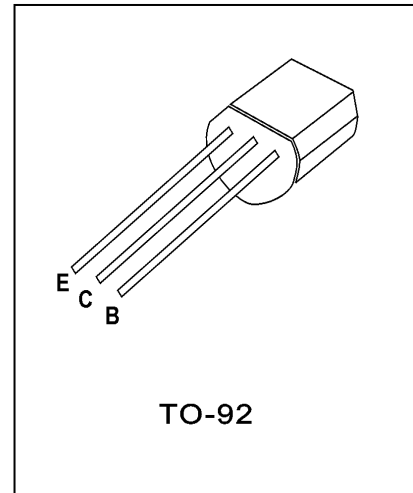
应用: 节能灯 电子镇流器

APPLICATION: ■FLUORESCENT LAMP ■ELECTRONIC BALLAST

最大额定值 (Tc=25°C)

Absolute Maximum Ratings (Tc=25°C) TO-92

| 参数<br>PARAMETER                        | 符号<br>SYMBOL | 额定值<br>VALUE | 单位<br>UNIT |
|--|--------------|--------------|------------|
| 集电极-基极电压<br>Collector-Base Voltage     | $V_{CBO}$    | 600          | V          |
| 集电极-发射极电压<br>Collector-Emitter Voltage | $V_{CEO}$    | 400          | V          |
| 发射极-基极电压<br>Emitter-Base Voltage       | $V_{EBO}$    | 9            | V          |
| 集电极电流<br>Collector Current             | $I_C$        | 0.8          | A          |
| 集电极耗散功率<br>Total Power Dissipation     | $P_C$        | 10           | W          |
| 最高工作温度<br>Junction Temperature         | $T_j$        | 150          | °C         |
| 贮存温度<br>Storage Temperature            | $T_{stg}$    | -65-150      | °C         |



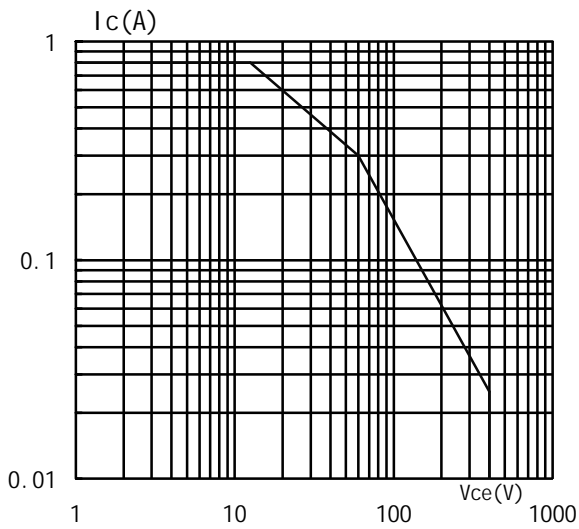
电特性 (Tc=25°C)

Electronic Characteristics (Tc=25°C)

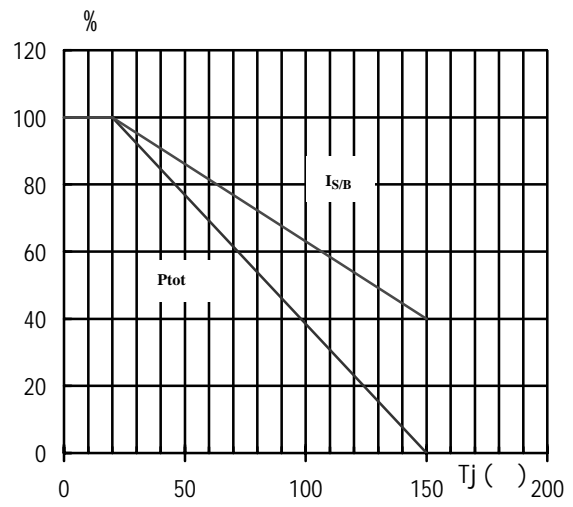
| 参数名称<br>CHARACTERISTICS                             | 符号<br>SYMBOL | 测试条件<br>TEST CONDITION             | 最小值<br>MIN | 最大值<br>MAX | 单位<br>UNIT |
|---|--------------|------------------------------------|------------|------------|------------|
| 集电极-基极截止电流<br>Collector-Base Cutoff Current         | $I_{CBO}$    | $V_{CB}=600V$                      |            | 100        | $\mu A$    |
| 集电极-发射极截止电流<br>Collector-Emitter Cutoff Current     | $I_{CEO}$    | $V_{CE}=400V, I_B=0$               |            | 250        | $\mu A$    |
| 集电极-发射极电压<br>Collector-Emitter Voltage              | $V_{CEO}$    | $I_C=10mA, I_B=0$                  | 400        |            | V          |
| 发射极-基极电压<br>Emitter-Base Voltage                    | $V_{EBO}$    | $I_E=1mA, I_C=0$                   | 9          |            | V          |
| 集电极-发射极饱和电压<br>Collector-Emitter Saturation Voltage | $V_{cesat}$  | $I_C=100mA, I_B=10mA$              |            | 0.30       | V          |
|   |              | $I_C=0.5A, I_B=0.1A$               |            | 0.50       |            |
| 发射极-基极饱和电压<br>Base-Emitter Saturation Voltage       | $V_{besat}$  | $I_C=100mA, I_B=10mA$              |            | 1.0        | V          |
| 电流放大倍数<br>DC Current Gain                           | $h_{FE}$     | $V_{CE}=5V, I_C=1mA$               | 7          |            |            |
|   |              | $V_{CE}=10V, I_C=0.1A$             | 10         | 40         |            |
|   |              | $V_{CE}=5V, I_C=0.8A$              | 5          |            |            |
| 贮存时间<br>Storage Time                                | $t_s$        | $V_{CC}=5V, I_C=0.1A,$<br>(UI9600) | 2.0        | 4.2        | $\mu S$    |
| 下降时间<br>Falling Time                                | $t_f$        |                                    |            | 0.9        |            |



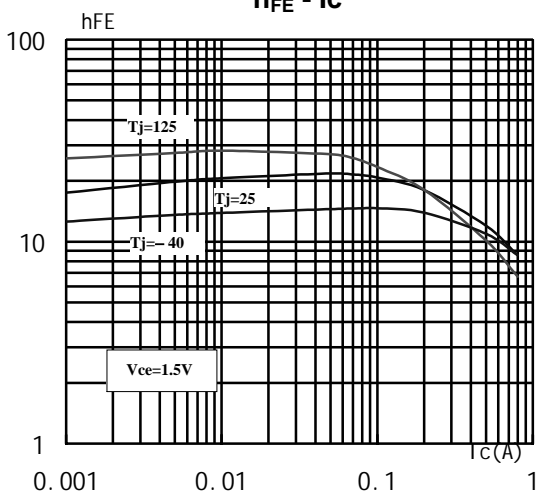
SOA (DC)



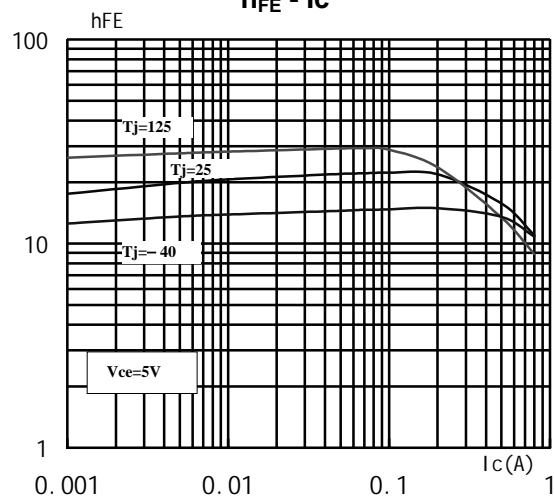
Pc Tj



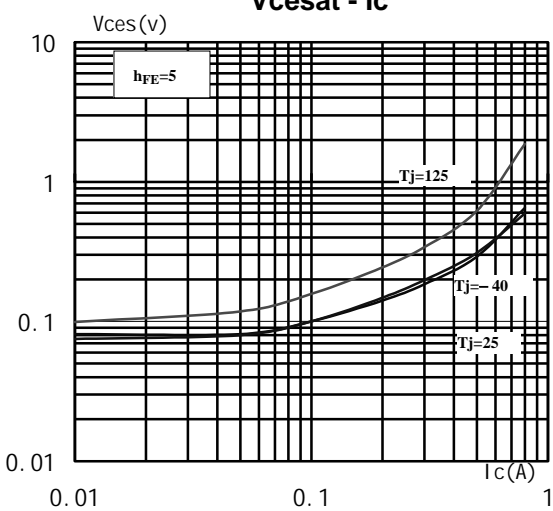
hFE - Ic



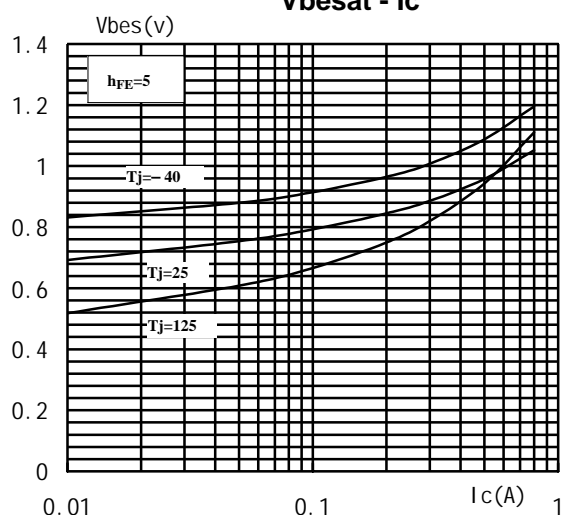
hFE - Ic



Vcesat - Ic



Vbesat - Ic





## TO-92 封装机械尺寸 TO-92 MECHANICAL DATA

单位:毫米/UNIT : mm

| 符号/SYMBOL     | 最小值/min | 典型值/nom | 最大值/max |
|---------------|---------|---------|---------|
| A             | 4.3     |         | 5.3     |
| b             | 0.3     |         |         |
| c             | 0.3     |         |         |
| $\phi D$<br>D | 4.3     |         | 5.2     |
| d             | 1.0     |         | 1.7     |
| E             | 3.2     |         | 4.2     |
| e             |         | 2.54    |         |
| e1            |         | 1.27    |         |
| L             | 12.7    |         |         |
| L1            |         |         | 2.0     |

