

描述 / Descriptions

TO-92LM 塑封封装 NPN 半导体三极管。Silicon NPN transistor in a TO-92LM Plastic Package.

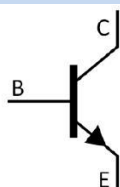
特征 / Features

与 KTA1023 互补
Complementary pair with KTA1023.

用途 / Applications

用于高电压。
High voltage application.

内部等效电路 / Equivalent Circuit



引脚排列 / Pinning



PIN 1 : Base PIN 2 : Collector PIN 3 : Emitter

放大及印章代码 / h_{FE} Classifications & Marking

| | | |
|------------------------------------|--------|---------|
| h_{FE} Classifications Symbol | O | Y |
| h_{FE} Range | 80~160 | 120~240 |

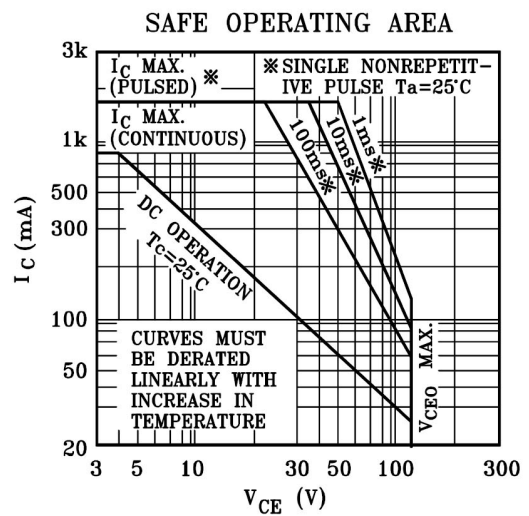
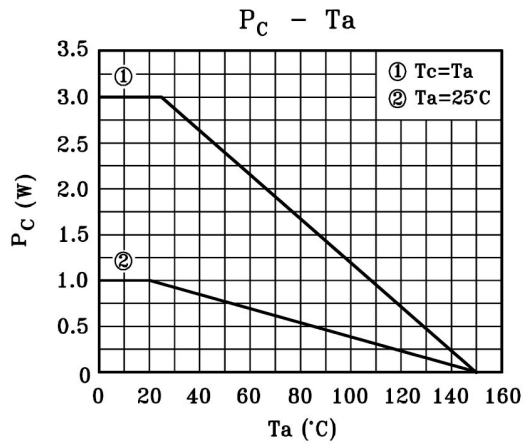
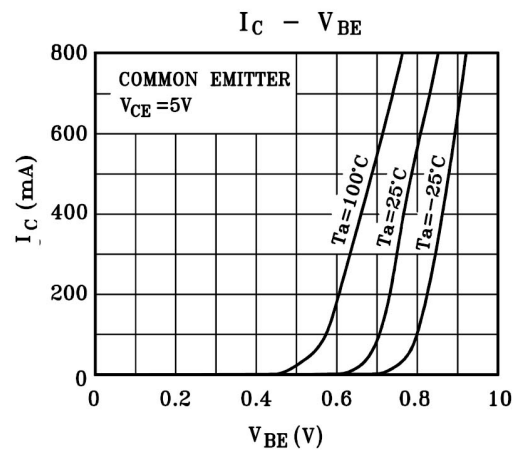
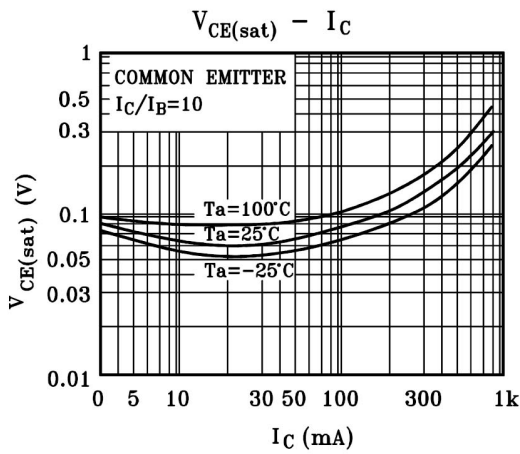
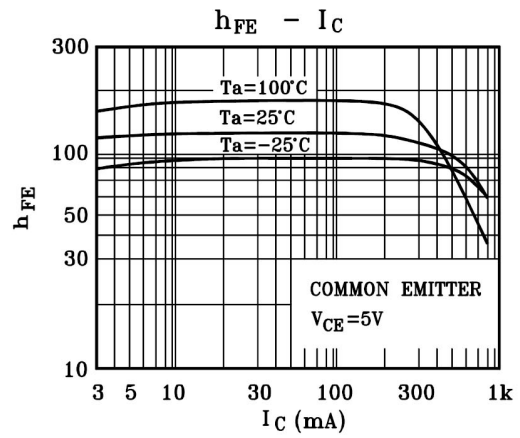
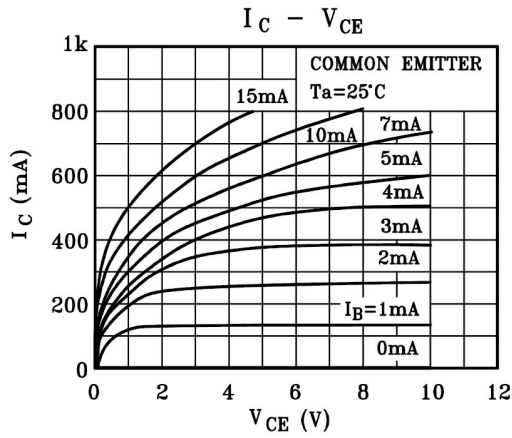
极限参数 / Absolute Maximum Ratings(Ta=25°C)

| 参数 Parameter | 符号 Symbol | 数值 Rating | 单位 Unit |
|--------------------------------|--------------|--------------|------------|
| Collector to Base Voltage | V_{CBO} | 120 | V |
| Collector to Emitter Voltage | V_{CEO} | 120 | V |
| Emitter to Base Voltage | V_{EBO} | 5.0 | V |
| Collector Current - Continuous | I_C | 800 | mA |
| Emitter Current - Continuous | I_E | -800 | mA |
| Collector Power Dissipation | P_C | 1.0 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55~150 | °C |

电性能参数 / Electrical Characteristics(Ta=25°C)

| 参数 Parameter | 符号 Symbol | 测试条件 Test Conditions | 最小值 Min | 典型值 Typ | 最大值 Max | 单位 Unit |
|---|---------------|------------------------------------|------------|------------|------------|------------|
| Collector to Emitter Breakdown Voltage | V_{CEO} | $I_C=10mA$ $I_B=0$ | 120 | | | V |
| Collector to Base Breakdown Voltage | V_{EBO} | $I_E=1mA$ $I_C=0$ | 5.0 | | | V |
| Collector Cut-Off Current | I_{CBO} | $V_{CB}=120V$ $I_E=0$ | | | 0.1 | μA |
| Emitter Cut-Off Current | I_{EBO} | $V_{EB}=5V$ $I_C=0$ | | | 0.1 | μA |
| DC Current Gain | h_{FE} | $V_{CE}=5.0V$ $I_C=100mA$ | 80 | | 240 | |
| Collector to Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500mA$ $I_B=50mA$ | | | 1.0 | V |
| Base to Emitter Voltage | V_{BE} | $V_{CE}=5.0V$ $I_C=500mA$ | | | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=5.0V$ $I_C=100mA$ | | 120 | | MHz |
| Collector output capacitance | C_{ob} | $V_{CB}=10V$ $I_E=0$ $f=1.0MHz$ | | | 30 | pF |

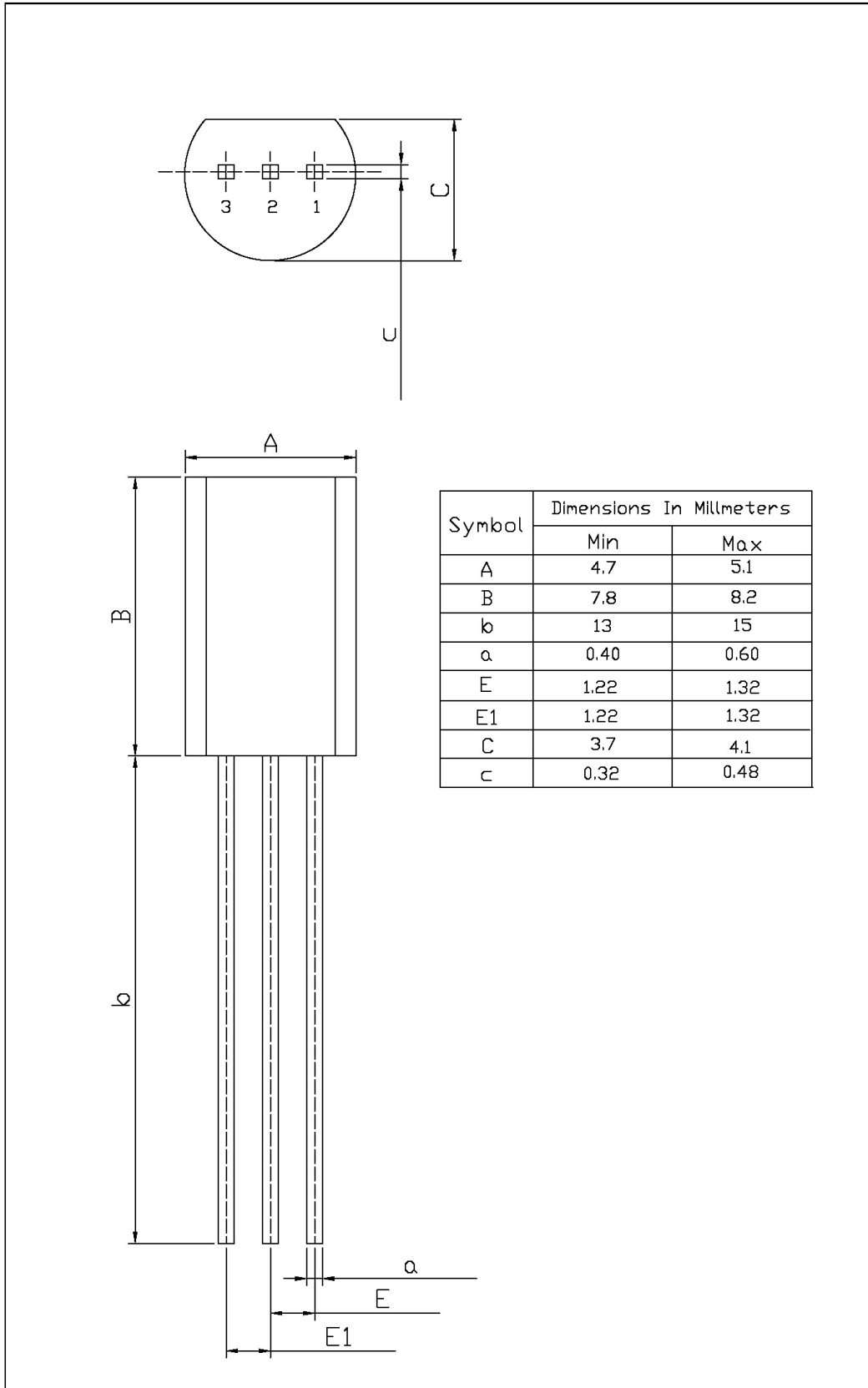
电参数曲线图 / Electrical Characteristic Curve



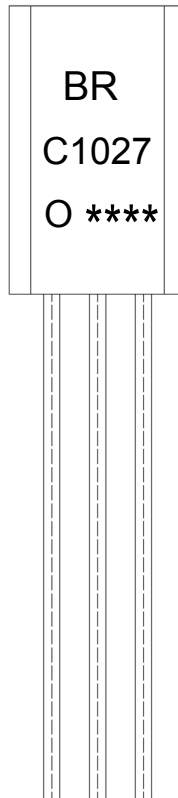
外形尺寸图 / Package Dimensions

T0-92LM

Unit: mm



印章说明 / Marking Instructions



说明：

- BR: 为公司代码
- C1027 : 为型号代码
- O: 为 h_{FE} 分档代码
- **** : 为生产批号代码，随生产批号变化。

Note:

- BR: Company Code.
- C1027: Product Type.
- O: h_{FE} Classifications Symbol
- ****: Lot No. Code,code change with Lot No.

波峰焊温度曲线图(无铅) / Temperature Profile for Dip Soldering(Pb-Free)



说明：

- 1、预热温度 25~150°C，时间 60~90sec;
- 2、峰值温度 255±5°C，时间持续为 5±0.5sec;
- 3、焊接制程冷却速度为 2~10°C/sec.

Note:

- 1.Preheating:25~150°C, Time:60~90sec.
- 2.Peak Temp.:255±5°C, Duration:5±0.5sec.
3. Cooling Speed: 2~10°C/sec.

耐焊接热试验条件 / Resistance to Soldering Heat Test Conditions

温度：270±5°C 时间：10±1 sec. Temp.:270±5°C Time:10±1 sec

包装规格 / Packaging SPEC.

散件包装 / BULK

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: mm3) | | |
|----------------------|------------------|-----------------------|------------------------|------------------------------|------------------------|----------------------------|-------------|-------------|
| | Units/Bag 只/袋 | Bags/Inner Box 袋/盒 | Units/Inner Box 只/盒 | Inner Boxes/Outer Box 盒/箱 | Units/Outer Box 只/箱 | Bag 袋 | Inner Box 盒 | Outer Box 箱 |
| TO-92LM | 1,000 | 8 | 8,000 | 5 | 40,000 | 135×190 | 237×172×102 | 560×245×195 |

编带包装 / AMMO

| Package Type 封装形式 | Units 包装数量 | | | | | Dimension 包装尺寸 (unit: mm3) | |
|----------------------|--------------------|------------------------|-------------------------|------------------------------|------------------------|----------------------------|----------------------------------|
| | Units/tape 只/纸带 | Tape/Inner Box 纸带/盒 | Rows/Inner Box 纸带层/盒 | Inner Boxes/Outer Box 盒/箱 | Units/Outer Box 只/箱 | Inner Box 盒 | Outer Box 箱 |
| TO-92LM | 2,500 | 1 | 100 | 10 | 25,000 | 328×230×42 | 小箱 480×346×235 大箱 547×407×268 |

使用说明 / Notices

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