



# 3DD1556

## 主要参数 MAIN CHARACTERISTICS

|               |                 |
|---------------|-----------------|
| $BV_{CBO}$    | 1500 V          |
| $I_C$         | 6 A             |
| $V_{CE(sat)}$ | 5 V(max)        |
| $t_f$         | 1 $\mu s$ (max) |

### 用途

- 彩色电视机行输出电路

### APPLICATIONS

- Horizontal deflection output for color TV.

### 产品特性

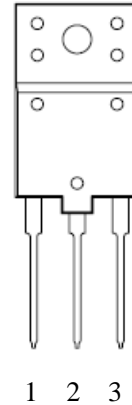
- 3DD1556 是 NPN 双极型高反压大功率晶体管, 制造中采用的主要工艺技术有: 高压台面工艺技术、三重扩散技术等, 采用塑料全包封结构。环保 (RoHS) 产品。

### FEATURES

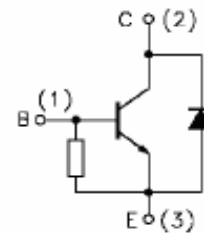
- 3DD1556 is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage mesa type process, triple diffused process etc., adoption of fully plastic package. RoHS product.

### 封装 Package

#### TO-3P(H)IS



### 等效电路 EQUIVALENT CIRCUIT

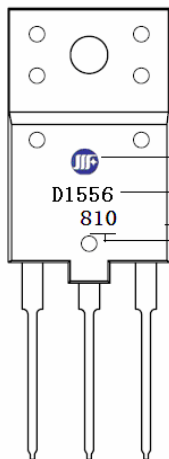


$R_{BE}=50$  (Typ.)

## 订货信息 ORDER MESSAGE

| 订货型号<br>Order codes | 印记<br>Marking | 无卤素<br>Halogen Free | 封装<br>Package | 包装<br>Packaging | 器件重量<br>Device Weight |
|---------------------|---------------|---------------------|---------------|-----------------|-----------------------|
| 3DD1556-O-A-N-D     | D1556         | 否 NO                | TO-3P(H)IS    | 泡沫 Foam         | 5.50 g(typ)           |

## 印记说明 MARKING



商标 Trademark

型号 Part No.

年月 Year month

举例 For example

“8” - 2008, “10” 10月 october



绝对最大额定值 ABSOLUTE RATINGS ( $T_c=25$  )

| 项 目<br>Parameter                         | 符 号<br>Symbol | 数 值<br>Value | 单 位<br>Unit |
|--|---------------|--------------|-------------|
| 集电极—基极直流电压<br>Collector-Base Voltage     | $BV_{CBO}$    | 1500         | V           |
| 集电极—发射极直流电压<br>Collector-Emitter Voltage | $BV_{CEO}$    | 600          | V           |
| 发射极—基极直流电压<br>Emitter-Base Voltage       | $BV_{EBO}$    | 6            | V           |
| 最大集电极电流<br>Collector Current             | 直流 DC         | $I_C$        | A           |
|  | 脉冲 Pulse      | $I_{CP}$     |             |
| 最大基极直流电流<br>Base Current                 | $I_B$         | 3            | A           |
| 最大集电极耗散功率<br>Collector Power Dissipation | $P_C$         | 50           | W           |
| 最高结温<br>Max. Junction Temperature        | $T_j$         | 150          |             |
| 储存温度<br>Storage Temperature Range        | $T_{STG}$     | -55~+150     |             |

电特性 ELECTRICAL CHARACTERISTICS ( $T_c=25$  )

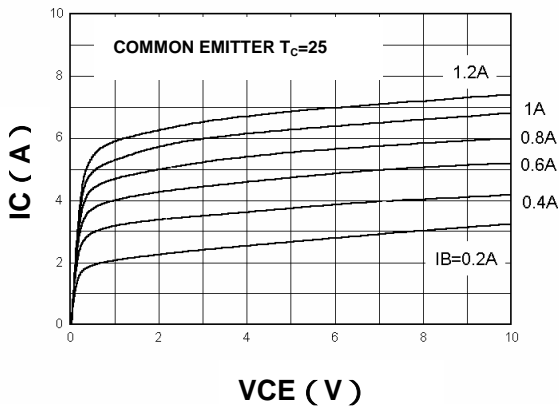
| 项 目<br>Parameter | 测试条件<br>Tests conditions                       | 最小值<br>Min | 最大值<br>Max | 单 位<br>Unit |
|------------------|--|------------|------------|-------------|
| $V(BR)_{CBO}$    | $I_C=1mA, I_E=0$                               | 1500       |            | V           |
| $V(BR)_{EBO}$    | $I_E=400mA, I_C=0$                             | 6          |            | V           |
| $I_{CBO}$        | $V_{CB}=1500V, I_E=0$                          |            | 1          | mA          |
| $I_{EBO}$        | $V_{EB}=5V, I_C=0$                             | 66         | 200        | mA          |
| $H_{FE}$         | $V_{CE} = 5 V, I_C = 1 A$                      | 8          | 30         |             |
| $V_{CE(sat)}$    | $I_C=5A, I_B=1A$                               |            | 5          | V           |
| $V_{BE(sat)}$    | $I_C=5A, I_B=1A$                               |            | 1.5        | V           |
| $-V_F$           | $I_F=6A$                                       |            | 2          | V           |
| $t_f$            | $I_C=5A, 2I_{B1}=-I_{B2}=5A$<br>$f_H=15.75kHz$ |            | 1          | $\mu s$     |
| $f_t$            | $V_{CE}=10V, I_C=0.1A$                         | 1          |            | MHz         |



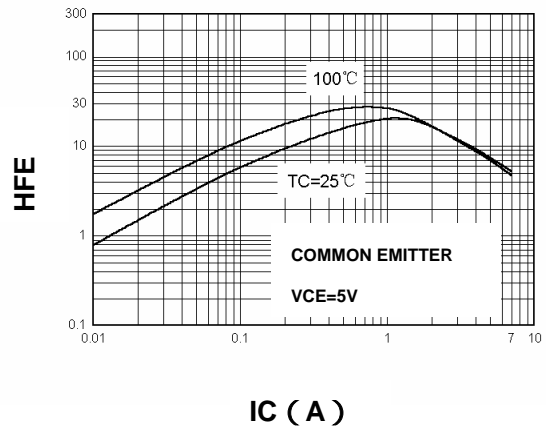


特征曲线 ELECTRICAL CHARACTERISTICS CURVES

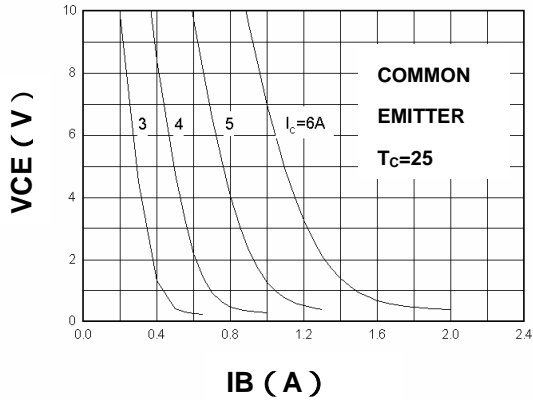
IC - VCE



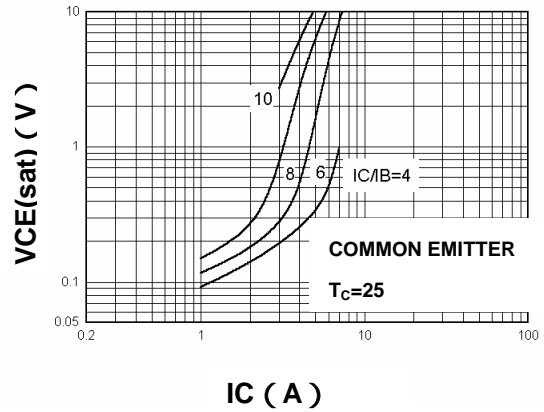
HFE - IC



VCE - IB

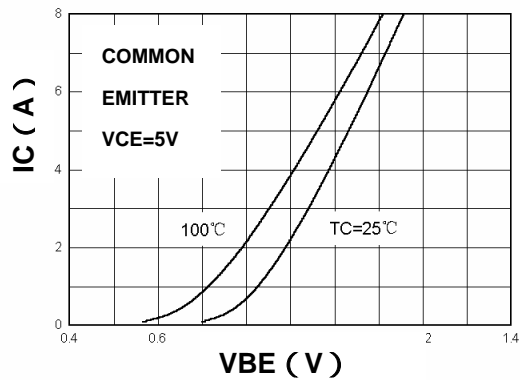


VCE (sat) - IC

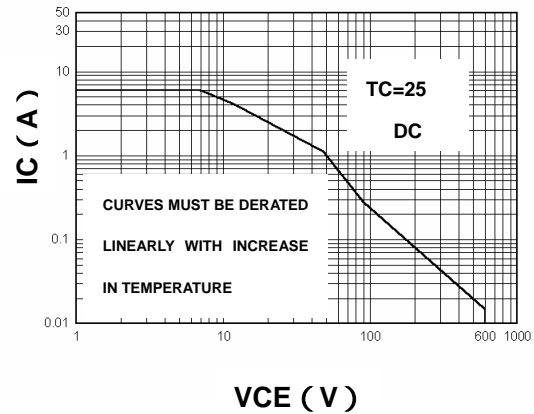




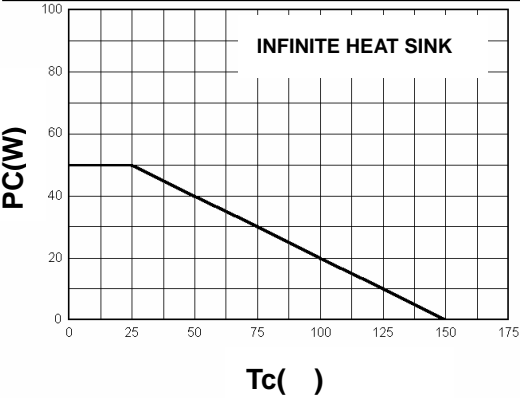
**IC - VBE**



**SOA**



**PC-TC**

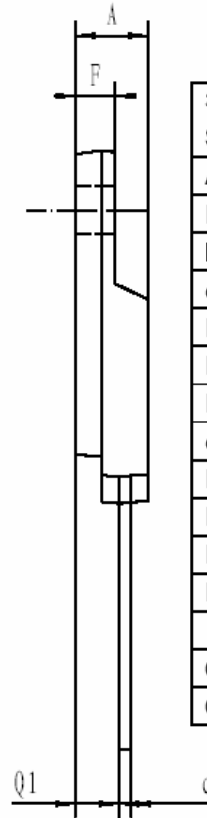
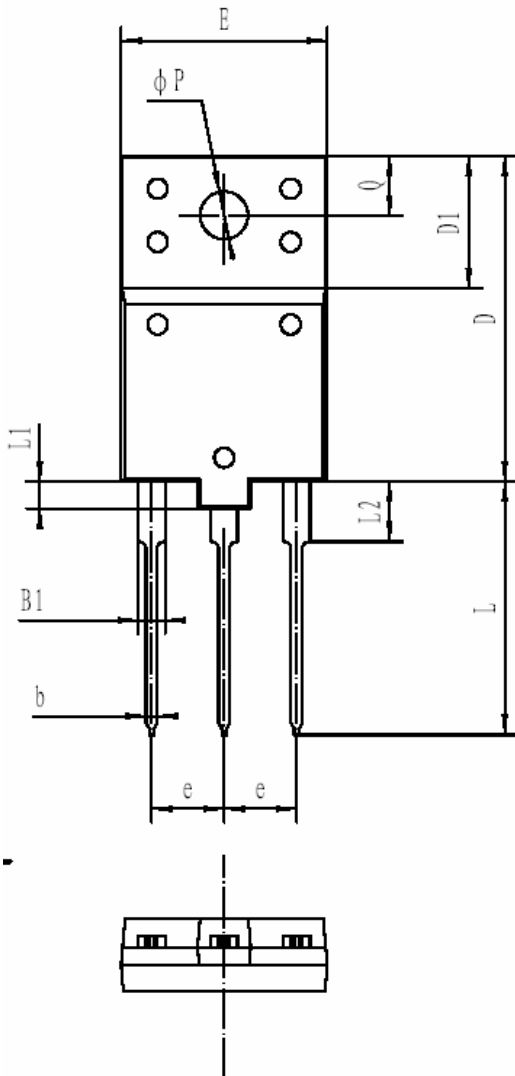




3DD1556

外形尺寸 PACKAGE MECHANICAL DATA  
TO-3P(H)IS

单位 Unit : mm



| 符号<br>Symbol | Min        | Max  |
|--------------|------------|------|
| A            | 5.2        | 5.8  |
| B1           | 1.8        | 2.2  |
| b            | 0.75       | 1.05 |
| c            | 0.8        | 1.1  |
| D            | 24.0       | 25.0 |
| D1           | 9.8        | 10.2 |
| E            | 15.0       | 16.0 |
| e            | 5.45 (typ) |      |
| F            | 2.7        | 3.3  |
| L            | 18.5       | 19.5 |
| L1           | 1.8        | 2.2  |
| L2           | 4.3        | 4.7  |
| $\phi P$     | 3.4        | 3.8  |
| Q            | 4.3        | 4.7  |
| Q1           | 3.1        | 3.5  |



**注意事项**

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知

**NOTE**

1. Jilin Sino-microelectronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
4. Jilin Sino-microelectronics co., Ltd reserves the right to make changes in this specification sheet and is subject to change without prior notice.

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**附录 ( Appendix ) : 修订记录 ( Revision History )**

| 日期 Date   | 旧版本 Last Rev. | 新版本 New Rev. | 修订内容 Description of Changes                      |
|-----------|---------------|--------------|--|
| 2009-5-20 | 200410        | 905B         | 增加订货信息，印记说明等<br>Add order message, marking, etc. |
| 2009-11-3 | 905B          | 911C         | 修改电话号码   |

