



3DD5036P

主要参数 MAIN CHARACTERISTICS

| | |
|---------------|-------------------|
| BV_{CBO} | 1500 V |
| I_C | 10 A |
| $V_{CE(sat)}$ | 3 V(max) |
| t_r | 0.6 μs (max) |

用途

- 彩色电视机行输出电路

产品特性

- 3DD5036P 是 NPN 双极型高压大功率晶体管, 制造中采用的主要工艺技术有: 高压平面工艺技术、三重扩散技术等, 采用塑料全包封结构。环保 (RoHS) 产品。

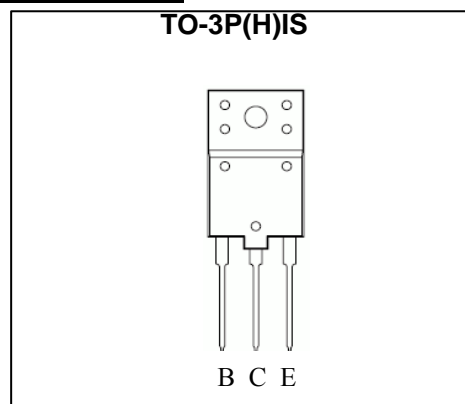
APPLICATIONS

- Horizontal deflection output for color TV.

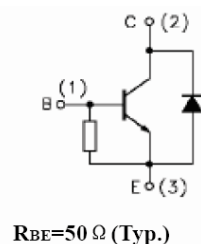
FEATURES

- 3DD5036P is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage planar process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package



等效电路 EQUIVALENT CIRCUIT



订货信息 ORDER MESSAGE

| 订货型号 Order codes | 印记 Marking | 无卤素 Halogen Free | 封装 Package | 包装 Packaging |
|---------------------|---------------|---------------------|---------------|-----------------|
| 3DD5036P-O-A-N-D | D5036P | 否 NO | TO-3P(H)IS | 泡沫Foam |



绝对最大额定值 **ABSOLUTE RATINGS (Tc=25℃)**

| 项 目 Parameter | 符 号 Symbol | 数 值 Value | 单 位 Unit |
|--|---------------|--------------|-------------|
| 集电极—基极直流电压 Collector-Base Voltage | BV_{CBO} | 1500 | V |
| 集电极—发射极直流电压 Collector-Emitter Voltage | BV_{CEO} | 600 | V |
| 发射极—基极直流电压 Emitter-Base Voltage | BV_{EBO} | 6 | V |
| 最大集电极电流 Collector Current | 直流DC | I_C | 10 |
| | 脉冲Pulse | I_{CP} | 20 |
| 最大基极直流电流 Base Current | I_B | 4 | A |
| 最大集电极耗散功率 Collector Power Dissipation | P_C | 50 | W |
| 最高结温 Max. Junction Temperature | T_j | 150 | ℃ |
| 储存温度 Storage Temperature Range | T_{STG} | -55~+150 | ℃ |

电特性 **ELECTRICAL CHARACTERISTICS (Tc=25℃)**

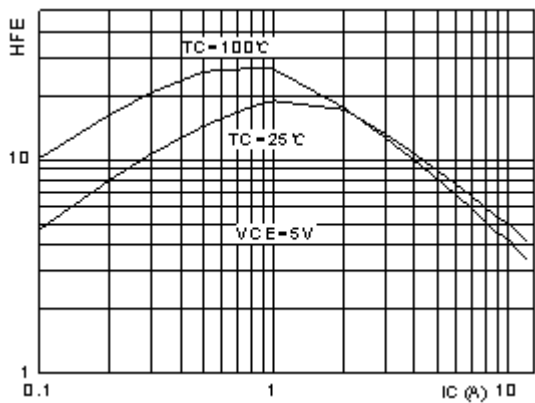
| 项 目 Parameter | 测试条件 Tests conditions | 最小值 Min | 最大值 Max | 单位 Unit |
|------------------|------------------------------|------------|------------|------------|
| $V(BR)_{CEO}$ | $I_C=10mA, I_B=0$ | 600 | | V |
| $V(BR)_{CBO}$ | $I_C=1mA, I_E=0$ | 1500 | | V |
| $V(BR)_{EBO}$ | $I_E=1mA, I_C=0$ | 6 | | V |
| I_{CBO} | $V_{CB}=1500V, I_E=0$ | | 1 | mA |
| I_{EBO} | $V_{EB}=4V, I_C=0$ | 40 | 150 | μA |
| H_{FE} | $V_{CE} = 5 V, I_C = 1 A$ | 10 | 30 | |
| | $V_{CE} = 5 V, I_C = 6 A$ | 4 | | |
| $V_{CE(sat)}$ | $I_C=5A, I_B=1A$ | | 3 | V |
| $V_{BE(sat)}$ | $I_C=5A, I_B=1A$ | | 1.3 | V |
| tf | $I_C=5A, 2I_{B1}=-I_{B2}=2A$ | | 0.6 | μs |
| ts | $f_H=15.75kHz$ | | 9 | μs |
| ft | $V_{CE}=10V, I_C=0.1A$ | 1.7 | | MHz |



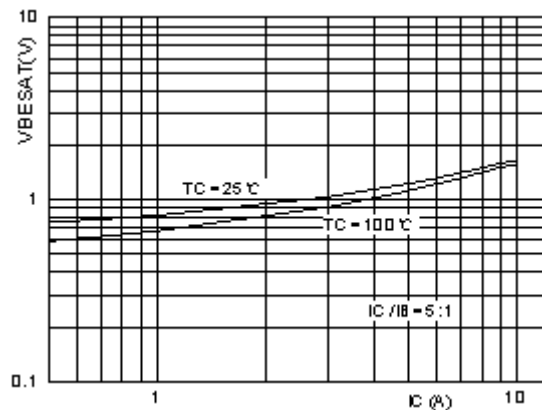


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

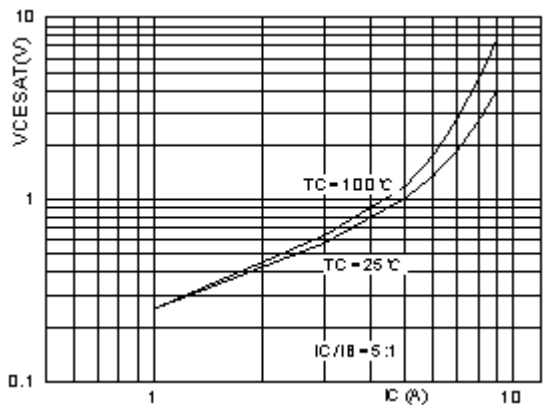
HFE - I_C



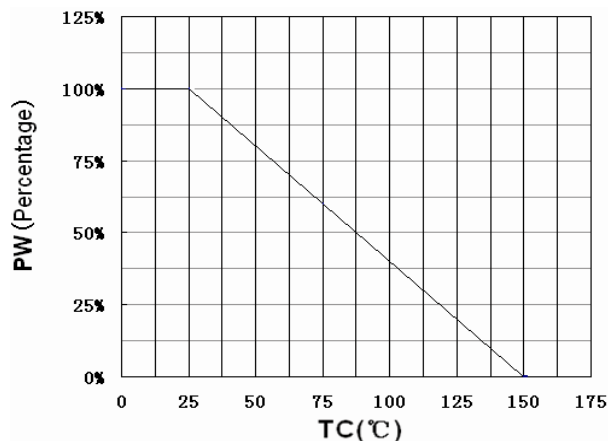
$V_{BE}(\text{sat}) - I_C$



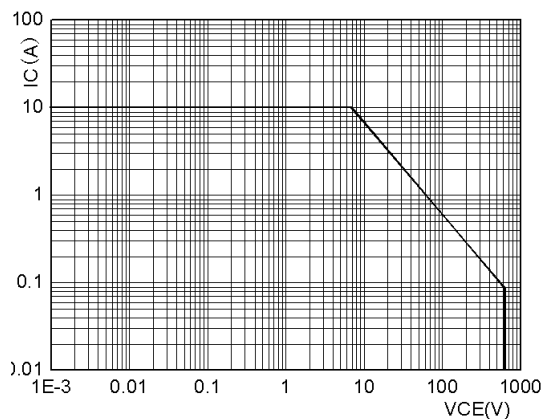
$V_{CE(\text{sat})} - I_C$



$P_C - T_C$



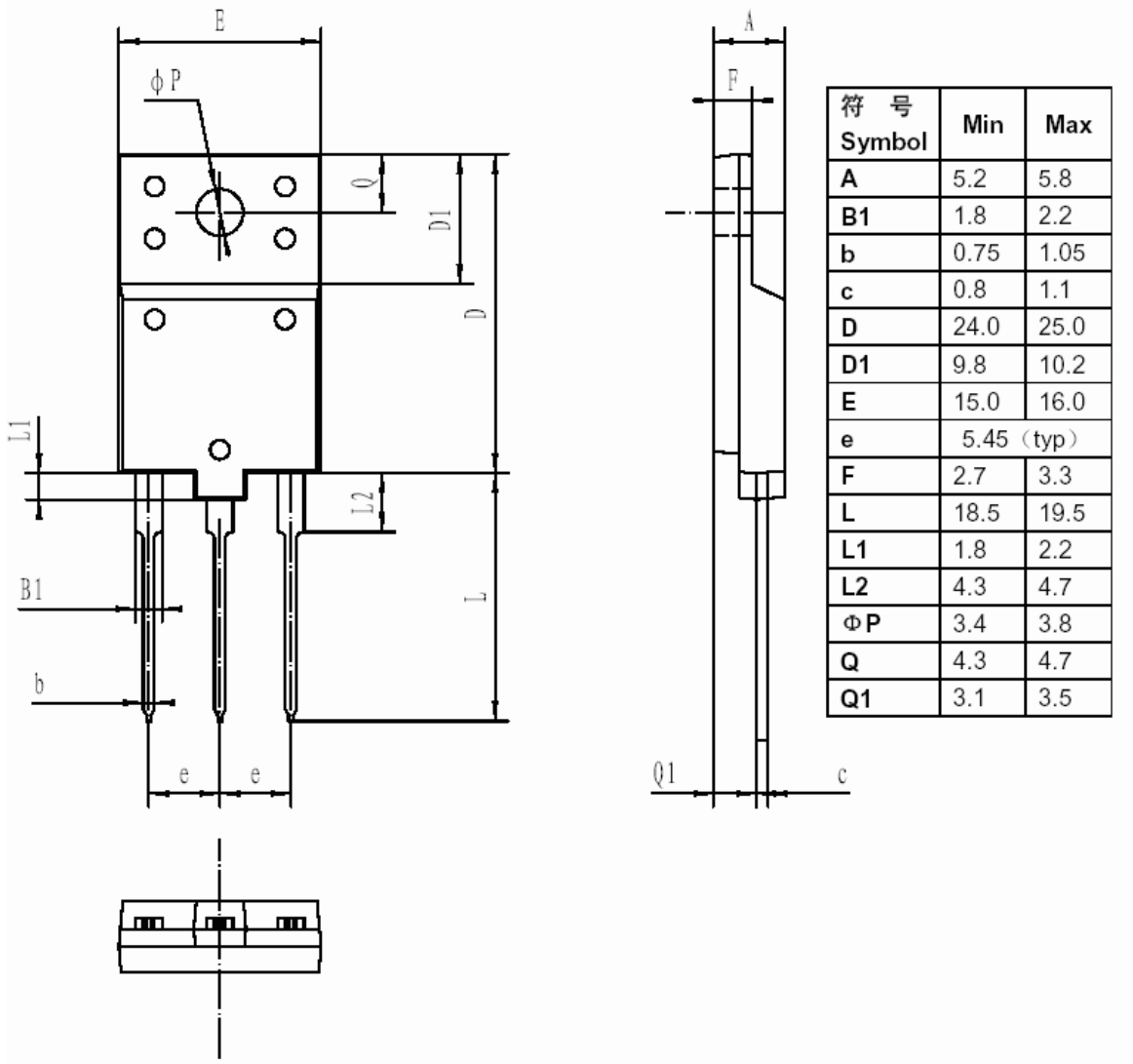
SOA





TO-3P(H)IS

单位 Unit : mm



**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

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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 |
|----------|---------------|-------------|-----------------------------|
| 2015-7-1 | 201109A | 201607B | 修订 IC |
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