



3DD5032P

主要参数 MAIN CHARACTERISTICS

| | |
|---------------|----------------|
| BV_{CBO} | 1500 V |
| I_C | 8 A |
| $V_{CE(sat)}$ | 3 V(max) |
| t_f | 1 μ s(max) |

用途

- 彩色电视机行输出电路

APPLICATIONS

- Horizontal deflection output for color TV.

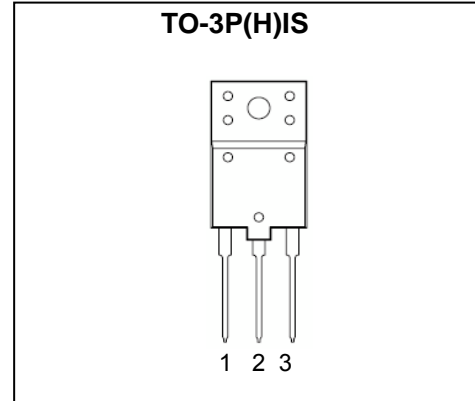
产品特性

- 3DD5032P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。

FEATURES

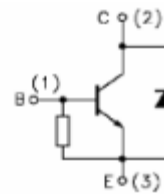
- 3DD5032P is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage planar process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package



等效电路

EQUIVALENT CIRCUIT



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

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 |
|---------------------|----------------|---------------------|----------------|------------------|
| 3DD5032P-O-A-N-D | D5032 | 否 NO | TO-3P(H)IS | 泡沫 Foam |



绝对最大额定值 ABSOLUTE RATINGS ($T_c=25^\circ\text{C}$)

| 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 | 8 |
| | 脉冲 Pulse | I_{CP} | 16 |
| 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 | $^\circ\text{C}$ |
| 储存温度 Storage Temperature Range | T_{STG} | -55~+150 | $^\circ\text{C}$ |

电特性 ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$)

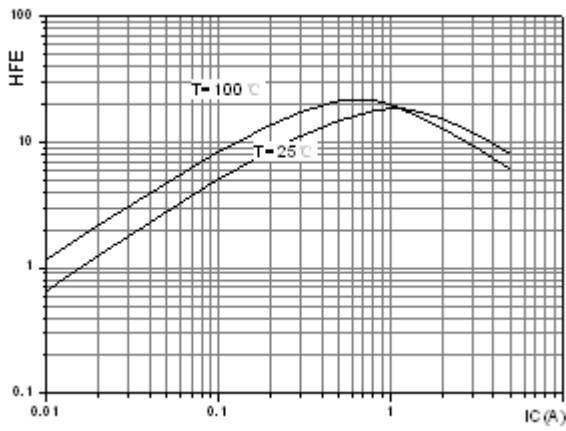
| 项 目 Parameter | 测试条件 Tests conditions | 最小值 Min | 最大值 Max | 单位 Unit |
|------------------|--|------------|------------|---------------|
| $V(BR)_{CBO}$ | $I_C=1\text{mA}, I_E=0$ | 1500 | | V |
| $V(BR)_{EBO}$ | $I_E=400\text{mA}, I_C=0$ | 6 | | V |
| I_{CBO} | $V_{CB}=1500\text{V}, I_E=0$ | | 1 | mA |
| I_{EBO} | $V_{EB}=4\text{V}, I_C=0$ | 40 | 150 | μA |
| H_{FE} | $V_{CE} = 5\text{V}, I_C = 1\text{A}$ | 10 | 30 | |
| | $V_{CE} = 5\text{V}, I_C = 5\text{A}$ | 5 | | |
| $V_{CE(sat)}$ | $I_C=4.5\text{A}, I_B=0.9\text{A}$ | | 3 | V |
| $V_{BE(sat)}$ | $I_C=4.5\text{A}, I_B=0.9\text{A}$ | | 1.5 | V |
| tf | $I_C=4\text{A}, 2I_{B1}=-I_{B2}=1.8\text{A}$ | | 1 | μs |
| ts | $f_H=15.75\text{kHz}$ | | 9 | μs |
| ft | $V_{CE}=10\text{V}, I_C=0.1\text{A}$ | 1.7 | | MHz |



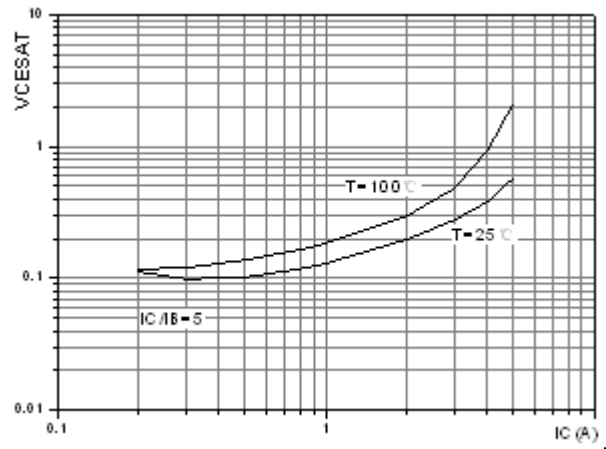


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

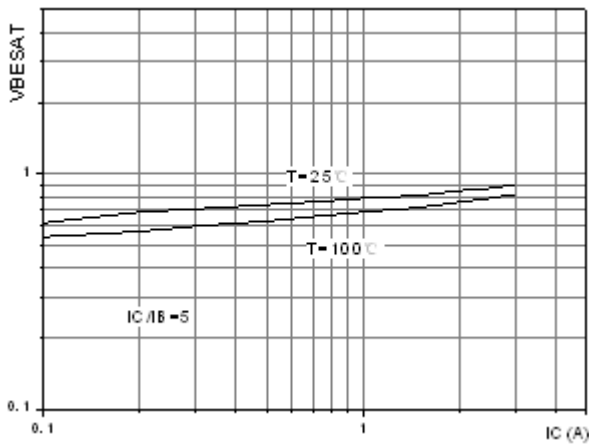
HFE - IC



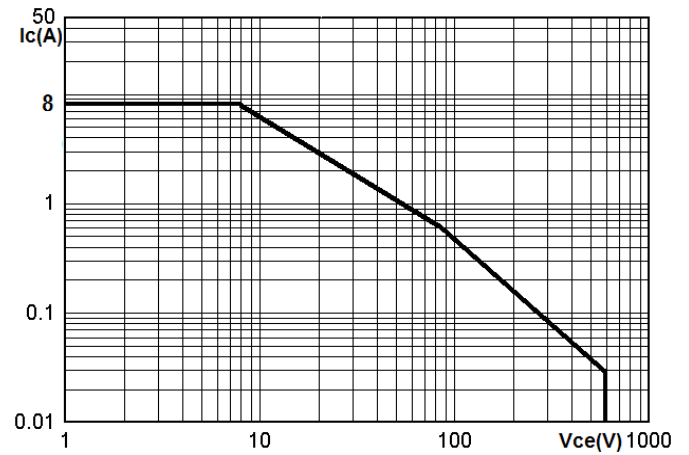
VCE (sat) - IC



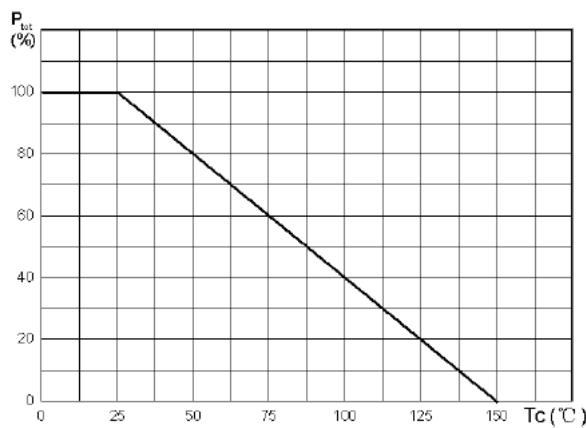
VBE (sat) - IC



SOA



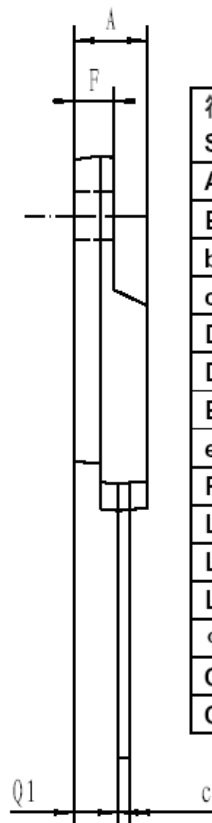
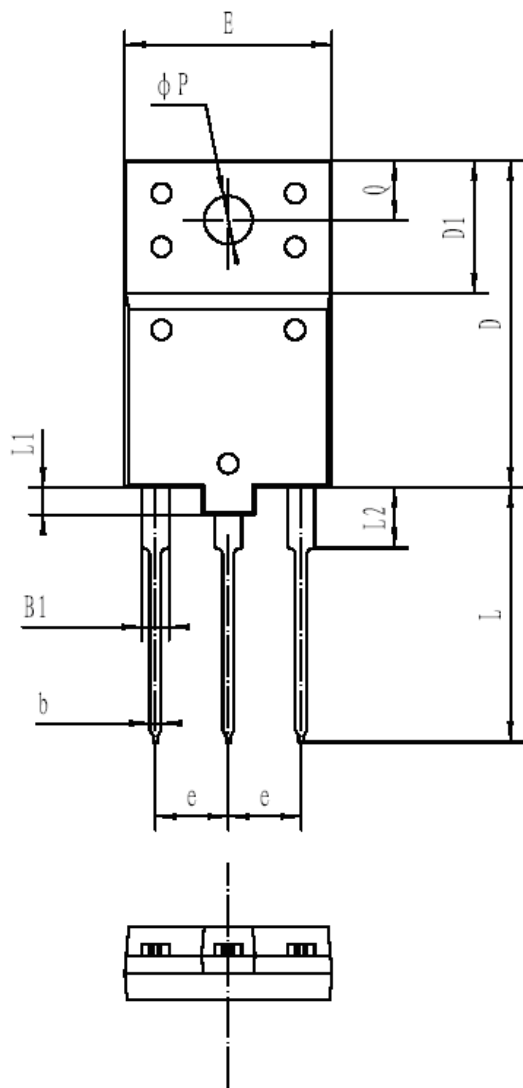
PC-TC





TO-3P(H)IS

单位Unit : mm



| 符号 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 |
| ϕP | 3.4 | 3.8 |
| Q | 4.3 | 4.7 |
| Q1 | 3.1 | 3.5 |



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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

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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 |
|---------|---------------|--------------|-----------------------------|
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