



3DD5024P

主要参数 MAIN CHARACTERISTICS

| | |
|---------------|----------------|
| BV_{CBO} | 1500 V |
| I_C | 8A |
| $V_{CE(sat)}$ | 3V(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

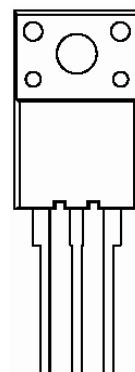
- 3DD5023P 是NPN 双极型高反压大功率晶体管，制造中采用的主要工艺技术有：高压平面工艺技术、三重扩散技术等，采用塑料全封装结构。环保（RoHS）产品。

FEATURES

- 3DD5023P 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.

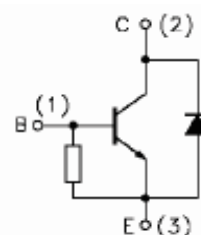
封装 Package

TO-220HF



1 2 3

等效电路 EQUIVALENT CIRCUIT



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

订货信息 ORDER MESSAGE

| 订货型号 Order codes | | 印 记 Marking | 封 装 Package |
|------------------|-------------------|-------------|-------------|
| 有卤条管 | 有卤条管 | | |
| Halogen-Tube | Halogen-Free-Tube | | |
| 3DD5024P-FA-B | 3DD5024P-FA-B | 5024P | TO-220HF |



绝对最大额定值 **ABSOLUTE RATINGS (Tc=25°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 | 8 | A |
| | 脉冲 Pulse | 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 | 35 | W |
| 最高结温 Max. Junction Temperature | T_j | 150 | °C |
| 储存温度 Storage Temperature Range | T_{STG} | -55~+150 | °C |

电特性 **ELECTRICAL CHARACTERISTICS (Tc=25°C)**

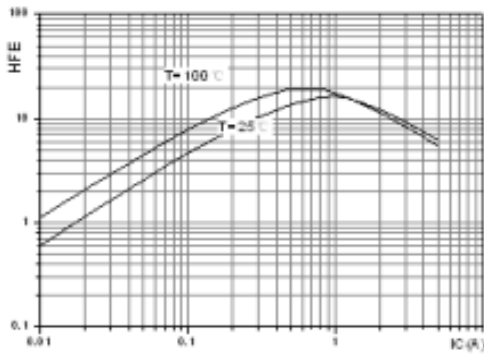
| 项 目 Parameter | 测试条件 Tests conditions | 最小值 Min | 最大值 Max | 单位 Unit |
|------------------|--------------------------------|------------|------------|------------|
| $V(BR)_{CBO}$ | $I_C=1mA, I_E=0$ | 1500 | | V |
| $V(BR)_{EBO}$ | $I_E=400mA, I_C=0$ | 6 | | V |
| I_{CBO} | $V_{CB}=1500V, I_E=0$ | |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



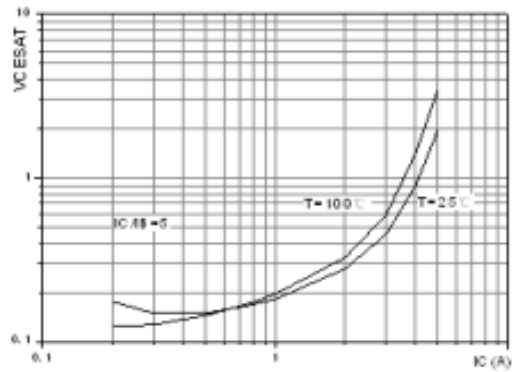


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

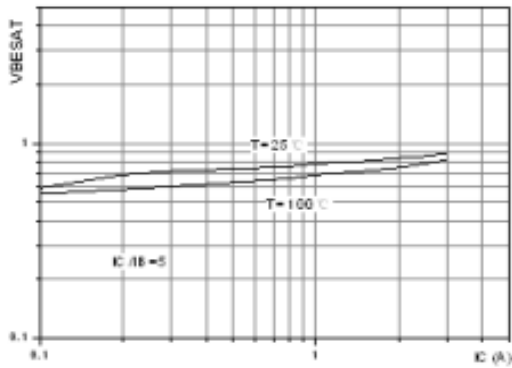
HFE - IC



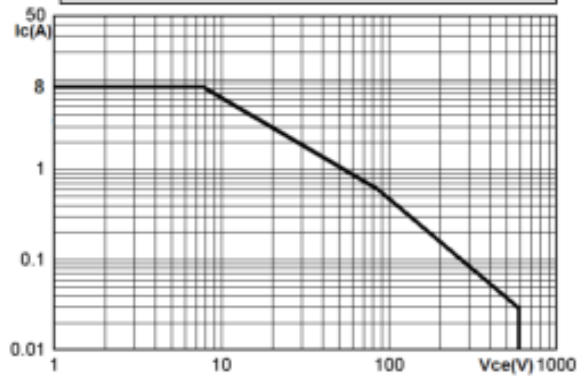
VCE (sat) - IC



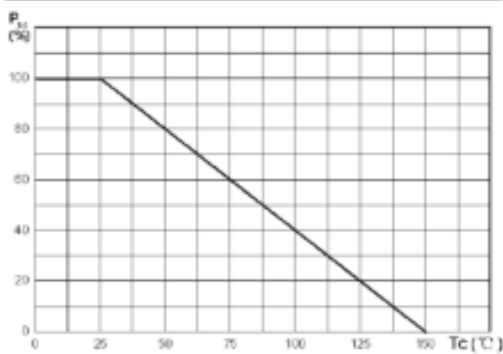
VBE (sat) - IC



SOA

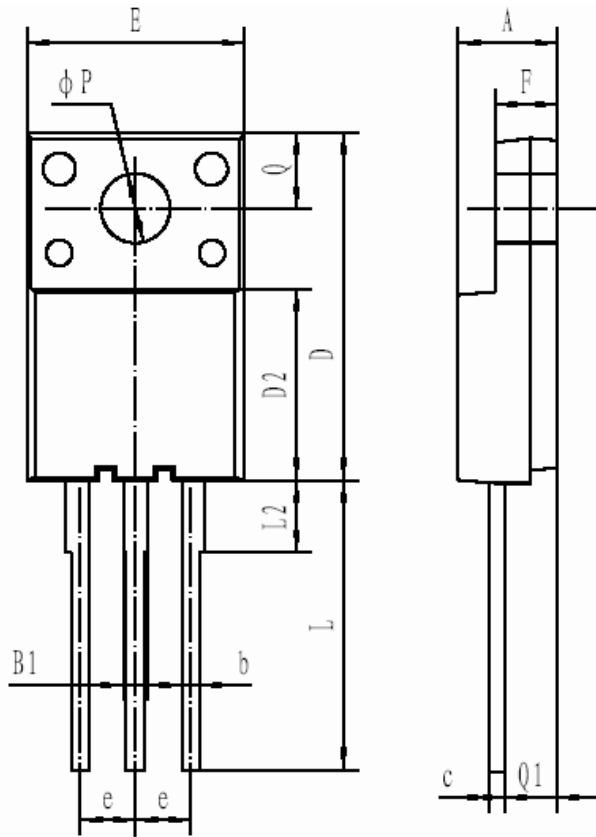


PC-TC

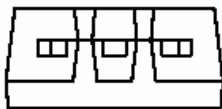


外形尺寸 PACKAGE MECHANICAL DATA
TO-220HF

单位Unit : mm



| 符号 Symbol | Min | Max |
|--------------|-----------|-------|
| A | 4.0 | 5.0 |
| B1 | 0.87 | 1.27 |
| b | 0.72 | 0.92 |
| c | 0.5 | 0.70 |
| D | 15.0 | 16.5 |
| D2 | 7.8 | 9.4 |
| E | 9.62 | 10.62 |
| e | 2.54(typ) | |
| F | 2.3 | 3.3 |
| L | 12.0 | 14.0 |
| L2 | 3.1 | 3.5 |
| ϕP | 3.0 | 3.4 |
| Q | 3.15 | 3.55 |
| Q1 | 2.2 | 2.5 |



**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

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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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