

3DD5027

主要参数 **MAIN CHARACTERISTICS**

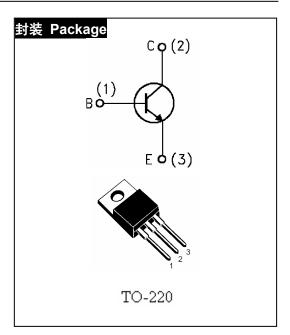
| I _C | 3A |
|-------------------------|------|
| V _{CEO} | 800V |
| P _C (TO-220) | 50W |

用途

- 节能灯
- 电子镇流器
- 高频开关电源
- 高频功率变换

APPLICATIONS

- Energy-saving ligh
- Electronic ballasts
- High frequency switching power supply
- 一般功率放大电路 High frequency power transform
 - Commonly power amplifier



产品特性

- ●高耐压
- ●高电流容量
- ●高开关速度
- ●高可靠性
- ●环保 (RoHS) 产品 RoHS product
- **FEATURES**
- High breakdown voltage
- High current capability
- High switching speed
- High reliability

订货信息 ORDER MESSAGE

| 订货型号 | 印 | 记 | 无卤素 | 封 | 装 | 包 | 装 | |
|-----------------|-----|------|--------------|-----|------|------|--------|--|
| Order codes | Mar | king | Halogen Free | Pac | kage | Pack | kaging | |
| 3DD5027-O-Z-N-C | D50 | 27 | 否 NO | TO- | 220 | 袋装 | Bag | |





绝对最大额定值 ABSOLUTE RATINGS (Tc=25℃)

| | 项目 | 符号 | 数值 | 单 位 |
|-------------|---|------------------|----------|------------------------|
| Parameter | | | Value | Unit |
| 集电极—发射极直流电压 | Collector- Emitter Voltage (V _{BE} =0) | V _{CES} | 1100 | V |
| 集电极—发射极直流电压 | Collector- Emitter Voltage (I _B =0) | V_{CEO} | 800 | V |
| 发射极—基极直流电压 | Emitter-Base Voltage | V_{EBO} | 7 | V |
| 最大集电极直流电流 | Collector Current (DC) | I _C | 3 | Α |
| 最大集电极脉冲电流 | Collector Current (pulse) | I _{CP} | 6 | Α |
| 最大基极直流电流 | Base Current (DC) | I _B | 1 | Α |
| 最大基极脉冲电流 | Base Current (pulse) | I _{BP} | 2 | Α |
| 最大集电极耗散功率 | Total Dissipation (TO-220) | Pc | 50 | W |
| 最高结温 | Junction Temperature | Tj | 150 | $^{\circ}\!\mathbb{C}$ |
| 贮存温度 | Storage Temperature | T _{stg} | -55~+150 | $^{\circ}\mathbb{C}$ |

注: pulse 电流宽度为小于5ms的非重复单脉冲。 Pulse Test: Pulse Width = 5.0 ms, Duty Cycle < 10%.

电特性 EIECTRICAL CHARACTERISTIC

| 项 目 | 测试条件 | 最小值 | 典型值 | 最大值 | 单位 |
|----------------------|---|------------|------------|------------|------|
| Parameter | Tests conditions | Value(min) | Value(typ) | Value(max) | Unit |
| V(BR) _{CEO} | I _C =10mA,I _B =0 | 800 | - | - | V |
| V(BR) _{CBO} | I _C =1mA,I _B =0 | 1100 | - | - | V |
| V(BR) _{EBO} | $I_E=1mA,I_C=0$ | 7 | - | - | V |
| I _{CBO} | V _{CB} =1100V, I _E =0 | - | - | 100 | μΑ |
| I _{CEO} | V_{CE} =800 V , I_{B} =0 | - | - | 50 | μΑ |
| I _{EBO} | V_{EB} =7V, I_{C} =0 | - | - | 10 | μΑ |
| Hfe(1) | $V_{CE} = 5V$, $I_{C} = 0.2A$ | 10 | - | 50 | |
| Hfe(2) | V_{CE} =5V, I_{C} =1A | 8 | - | - | |
| $V_{CE(sat)}$ | I _C =1.5A, I _B =0.3A | - | - | 2 | V |
| $V_{BE(sat)}$ | I _C =1.5A, I _B =0.3A | - | - | 1.5 | V |
| tf | V _{CC} =24V I _C =2A,I _{B1} =-I _{B2} =0.4A | - | - | 0.3 | μS |
| ts | V CC-24 V IC-2A,IB1IB2-U.4A | - | - | 3 | μS |
| f⊤ | V _{CE} =10V, I _C =0.2A | - | 15 | - | MHz |

热特性 THERMAL CHARACTERISTIC

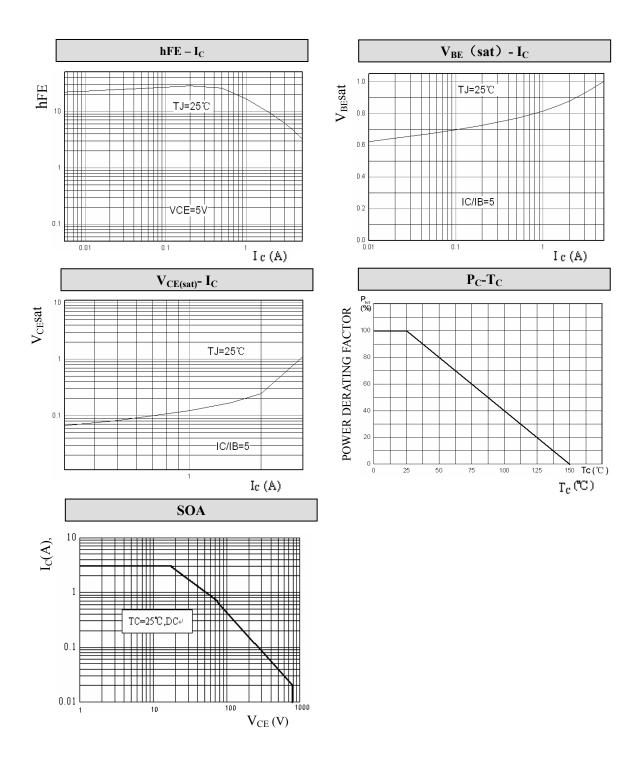
| 项目 | 符号 | 最小值 | 最大值 | 单 位 |
|---|-----------|------------|------------|------|
| Parameter | Symbol | Value(min) | Value(max) | Unit |
| 结到管壳的热阻 TO-220 | Dub (: 0) | | 2.5 | °C/W |
| Thermal Resistance Junction Case TO-220 | Rth(j-c) | _ | 2.0 | CIVV |



版本: 200910C



特征曲线 ELECTRICAL CHARACTERISTICS (curves)



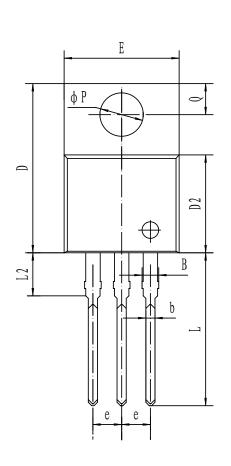


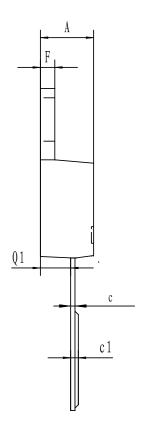


外形尺寸 PACKAGE MECHANICAL DATA

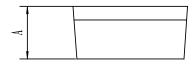
单位 Unit: mm

TO-220





| 符号 | | |
|--------|-------|-------|
| symbol | MIN | MAX |
| Α | 4.40 | 4.80 |
| В | 1.10 | 1.40 |
| b | 0.70 | 0.95 |
| С | 0.28 | 0.48 |
| c1 | 0.32 | 0.52 |
| D | 14.45 | 16.00 |
| D2 | 8.20 | 9.20 |
| Е | 9.60 | 10.40 |
| е | 2.39 | 2.69 |
| F | 1.20 | 1.35 |
| L | 13.05 | 14.05 |
| L2 | 3.70 | 3.90 |
| Q | 2.40 | 3.00 |
| Q1 | 2.20 | 2.90 |
| Р | 3.50 | 4.00 |





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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- Please do not exceed the absolute maximum ratings of the device when circuit designing.
- 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 |
|------------|---------------|--------------|-----------------------------|
| 2009-10-23 | 200905B | 200910C | 电话、传真号码升位 |
| | | | |

