



3DD3997

主要参数 MAIN CHARACTERISTICS

| | |
|------------------|------|
| I_c | 30A |
| V_{CEO} | 800V |
| $P_c(TO-3P(LH))$ | 250W |

用途

- 高频开关电源
- 高频功率变换
- 一般功率放大电路

APPLICATIONS

- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

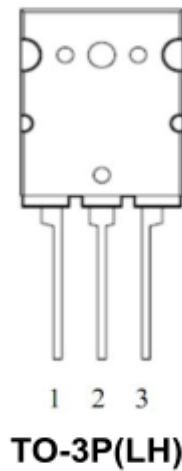
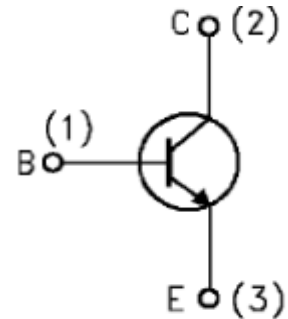
产品特性

- 高耐压
- 高电流容量
- 高开关速度
- 高可靠性
- 环保 (RoHS) 产品

FEATURES

- High breakdown voltage
- High current capability
- High switching speed
- High reliability
- RoHS product

封装 Package



订货信息 ORDER MESSAGE

| 订货型号 Order codes | | 印 记 Marking | 封 装 Package |
|------------------|-------------------|-------------|-------------|
| 有卤-条管 | 无卤-条管 | | |
| Halogen-Tube | Halogen-Free-Tube | D3997 | TO-3P (LH) |
| 3DD3997-GB-B | 3DD3997-GB-BR | | |

**绝对最大额定值 ABSOLUTE RATINGS (T_C=25℃)**

| 项 目 Parameter | 符 号 Symbol | 数 值 Value | 单 位 Unit |
|---|------------------|--------------|-------------|
| 集电极—发射极直流电压 Collector- Emitter Voltage (V _{BE} =0) | V _{CES} | 1200 | 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 | 30 | A |
| 最大集电极脉冲电流 Collector Current (pulse) | I _{CP} | 60 | A |
| 最大基极直流电流 Base Current (DC) | I _B | 15 | A |
| 最大基极脉冲电流 Base Current (pulse) | I _{BP} | 30 | A |
| 最大集电极耗散功率 TO-3P (LH) | P _C | 250 | W |
| 最高结温 Junction Temperature | T _j | 150 | ℃ |
| 贮存温度 Storage Temperature | T _{stg} | -55~+150 | ℃ |

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%.

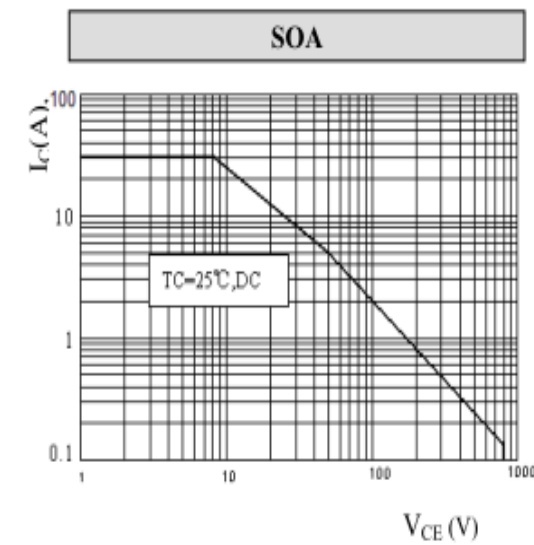
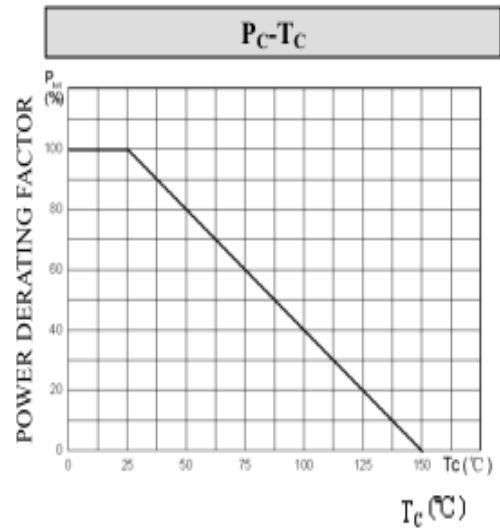
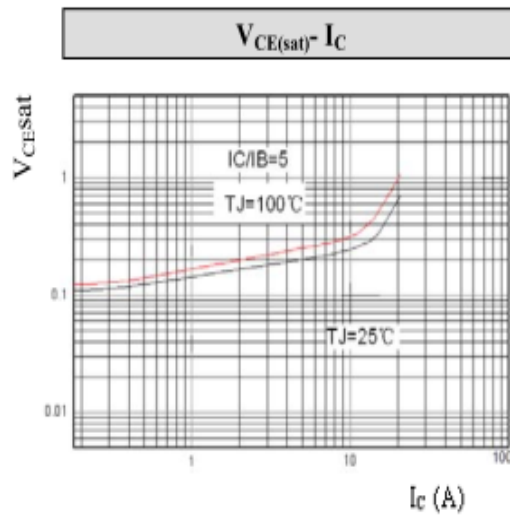
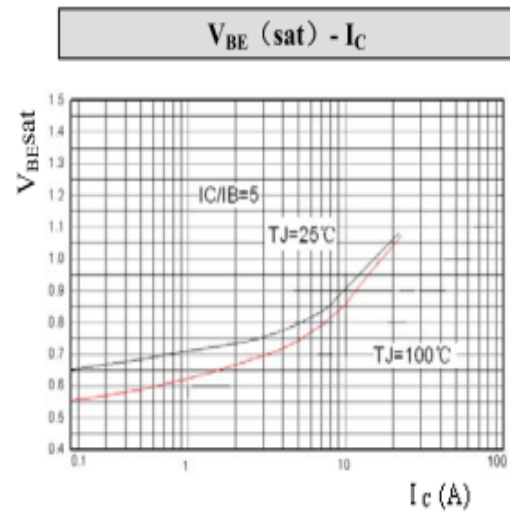
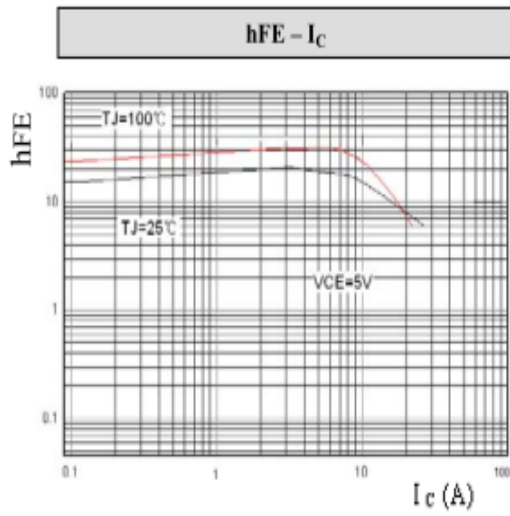
电特性 ELECTRICAL CHARACTERISTIC

| 项 目 Parameter | 测试条件 Tests conditions | 最小值 Value(min) | 典型值 Value(typ) | 最大值 Value(max) | 单 位 Unit |
|----------------------|---|-------------------|-------------------|-------------------|-------------|
| V(BR) _{CEO} | I _C =10mA, I _E =0 | 800 | - | - | V |
| V(BR) _{CBO} | I _C =1mA, I _B =0 | 1200 | - | - | V |
| V(BR) _{EBO} | I _E =1mA, I _C =0 | 7 | - | - | V |
| I _{CBO} | V _{CB} =1200V, I _E =0 | - | - | 10 | μA |
| I _{CEO} | V _{CE} =800V, I _B =0 | - | - | 50 | μA |
| I _{EBO} | V _{EB} =7V, I _C =0 | - | - | 10 | μA |
| H _{fe} (1) | V _{CE} =5V, I _C =1A | 10 | - | 30 | |
| H _{fe} (2) | V _{CE} =5V, I _C =20A | 3 | - | - | |
| V _{CE(sat)} | I _C =20A, I _B =4A | - | - | 1.8 | V |
| V _{BE(sat)} | I _C =20A, I _B =4A | - | - | 1.5 | V |

热特性 THERMAL CHARACTERISTIC

| 项 目 Parameter | 符 号 Symbol | 最小值 Value(min) | 最大值 Value(max) | 单 位 Unit |
|---|----------------------|-------------------|-------------------|-------------|
| 结到管壳的热阻 TO-3P (LH) Thermal Resistance Junction Case TO-3P (LH) | R _{th(j-c)} | - | 0.5 | ℃/W |

特征曲线 ELECTRICAL CHARACTERISTICS (curves)

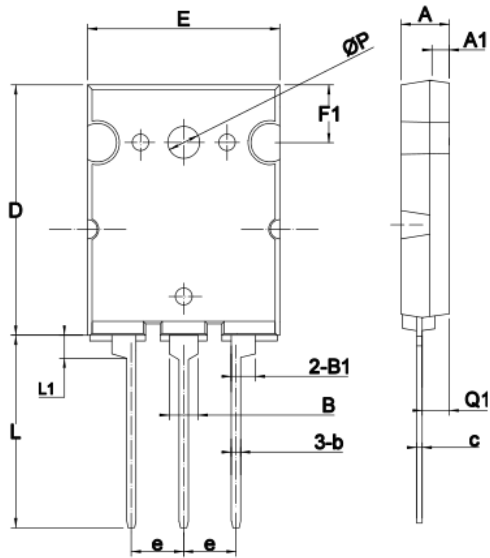




外形尺寸 PACKAGE MECHANICAL DATA

单位 Unit : mm

TO-3P (LH)



| 符号 symbol | MIN | MAX |
|--------------|------------|-------|
| A | 4.70 | 5.30 |
| A1 | 1.80 | 2.20 |
| b | 0.80 | 1.25 |
| B | 2.80 | 3.30 |
| B1 | 2.30 | 2.80 |
| c | 0.50 | 0.85 |
| D | 25.50 | 26.50 |
| e | 5.45 (TYP) | |
| E | 19.50 | 20.50 |
| F1 | 5.80 | 6.20 |
| L | 19.50 | 20.50 |
| L1 | 2.30 | 2.70 |
| ΦP | 3.10 | 3.50 |
| Q1 | 2.60 | 3.00 |



注意事项

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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.
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