

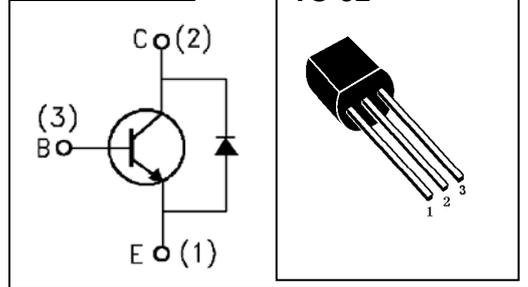


# 3DD4243DY

## 主要参数 MAIN CHARACTERISTICS

$I_c$	2.0A
$V_{CE0}$	400V
$P_c(TO-92)$	1W
$P_c(TO-251)$	10W
$P_c(TO-126(S))$	20W
$P_c(TO-220)$	40W

## 封装 Package



## 用途

- 节能灯
- 电子镇流器
- 高频开关电源
- 高频功率变换
- 一般功率放大电路

## APPLICATIONS

- Electronic ballasts
- 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

## 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
3DD4243DY-O-T-B-A	4243DY	否 NO	TO-92	编带 Brede
3DD4243DY-O-T-N-C	4243DY	否 NO	TO-92	袋装 Bag





## 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—发射极直流电压 Collector- Emitter Voltage (V <sub>BE</sub> =0)	V <sub>CES</sub>	700	V
集电极—发射极直流电压 Collector- Emitter Voltage (I <sub>B</sub> =0)	V <sub>CEO</sub>	400	V
发射极—基极直流电压 Emitter-Base Voltage	V <sub>EBO</sub>	9	V
最大集电极直流电流 Collector Current (DC)	I <sub>C</sub>	2.0	A
最大集电极脉冲电流 Collector Current (pulse)	I <sub>CP</sub>	4.0	A
最大集电极耗散功率 Total Dissipation (TO-92)	P <sub>C</sub>	1	W
最大集电极耗散功率 Total Dissipation (TO-251)	P <sub>C</sub>	10	W
最大集电极耗散功率 Total Dissipation (TO-126(S))	P <sub>C</sub>	20	W
最大集电极耗散功率 Total Dissipation (TO-220)	P <sub>C</sub>	40	W
最高结温 Junction Temperature	T <sub>j</sub>	150	°C
贮存温度 Storage Temperature	T <sub>stg</sub>	-55~+150	°C

## 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) <sub>CEO</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =0	400	460	-	V
V(BR) <sub>CBO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	700	800	-	V
V(BR) <sub>EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	9	16	-	V
I <sub>CBO</sub>	V <sub>CB</sub> =700V, I <sub>E</sub> =0	-	-	5	μA
I <sub>CEO</sub>	V <sub>CE</sub> =400V, I <sub>B</sub> =0	-	-	10	μA
I <sub>EBO</sub>	V <sub>EB</sub> =9V, I <sub>C</sub> =0	-	-	5	μA
hFE	V <sub>CE</sub> =5V, I <sub>C</sub> =200mA	19	22	25	-
	V <sub>CE</sub> =5V, I <sub>C</sub> =2.0A	4	8	-	-
V <sub>CE(sat)</sub>	I <sub>C</sub> =2.0A, I <sub>B</sub> =0.4A	-	0.8	1.1	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =1.0A, I <sub>B</sub> =0.2A	-	1.0	1.2	V
t <sub>f</sub>	V <sub>CC</sub> =24V I <sub>C</sub> =0.25A, I <sub>B1</sub> =-I <sub>B2</sub> =0.05A	-	-	0.7	μS
t <sub>s</sub>		-	-	5	μS
f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =0.1A	4	-	-	MHz

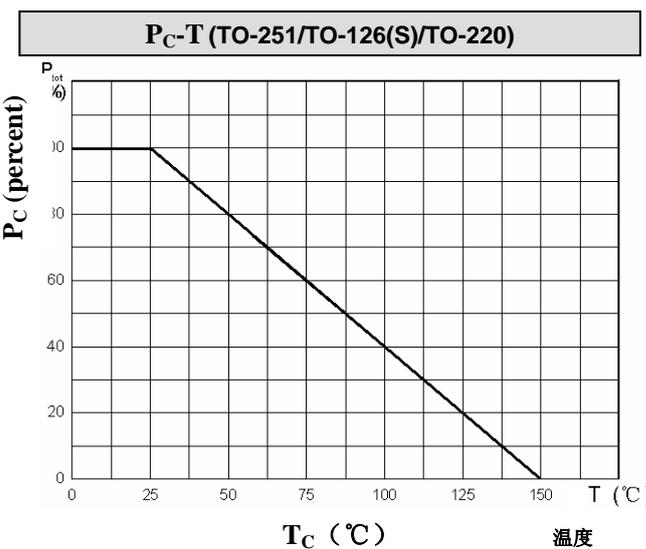
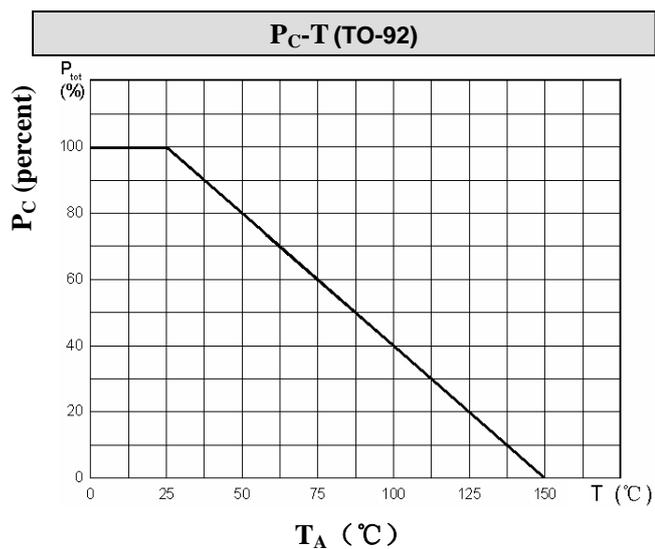
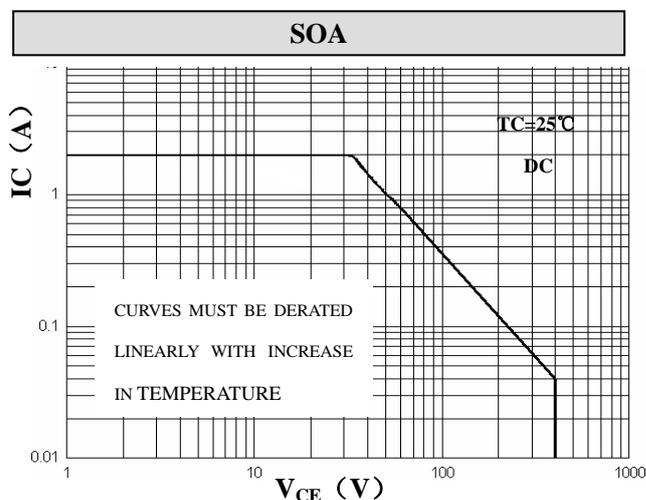
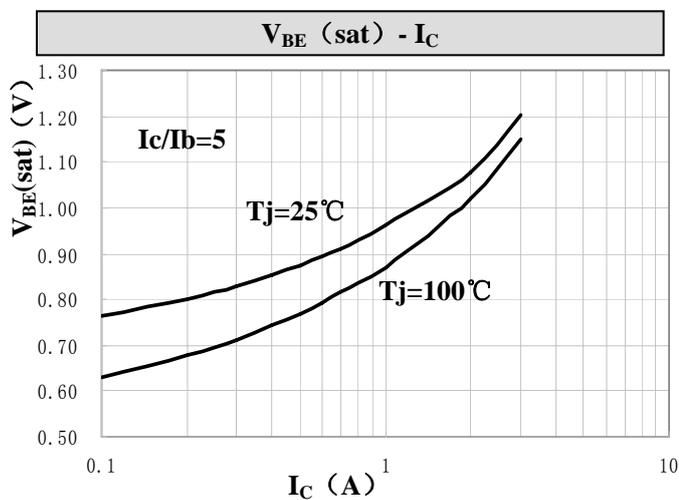
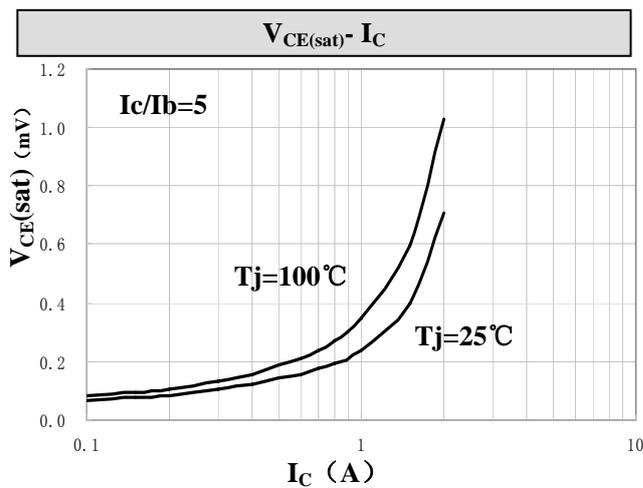
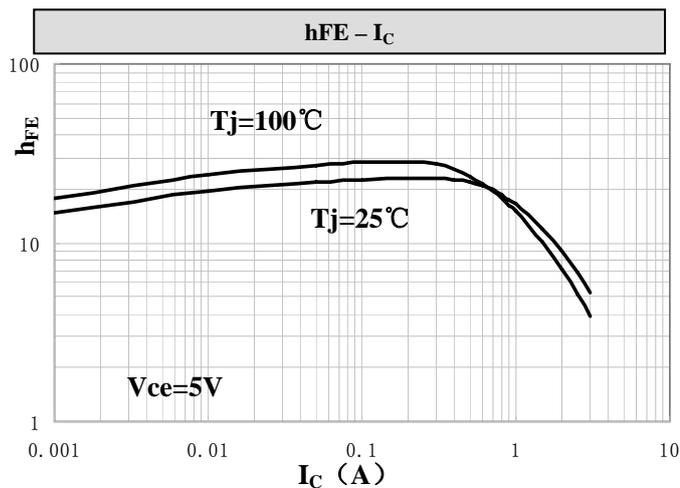
## 热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到环境的热阻 Thermal Resistance Junction Ambient TO-92	R <sub>th(j-a)</sub>	-	125	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)



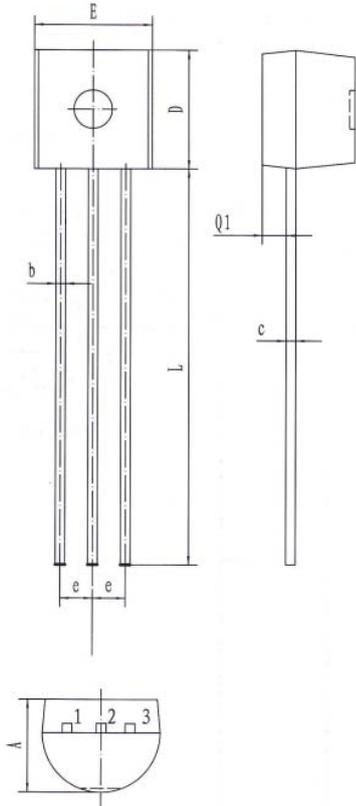


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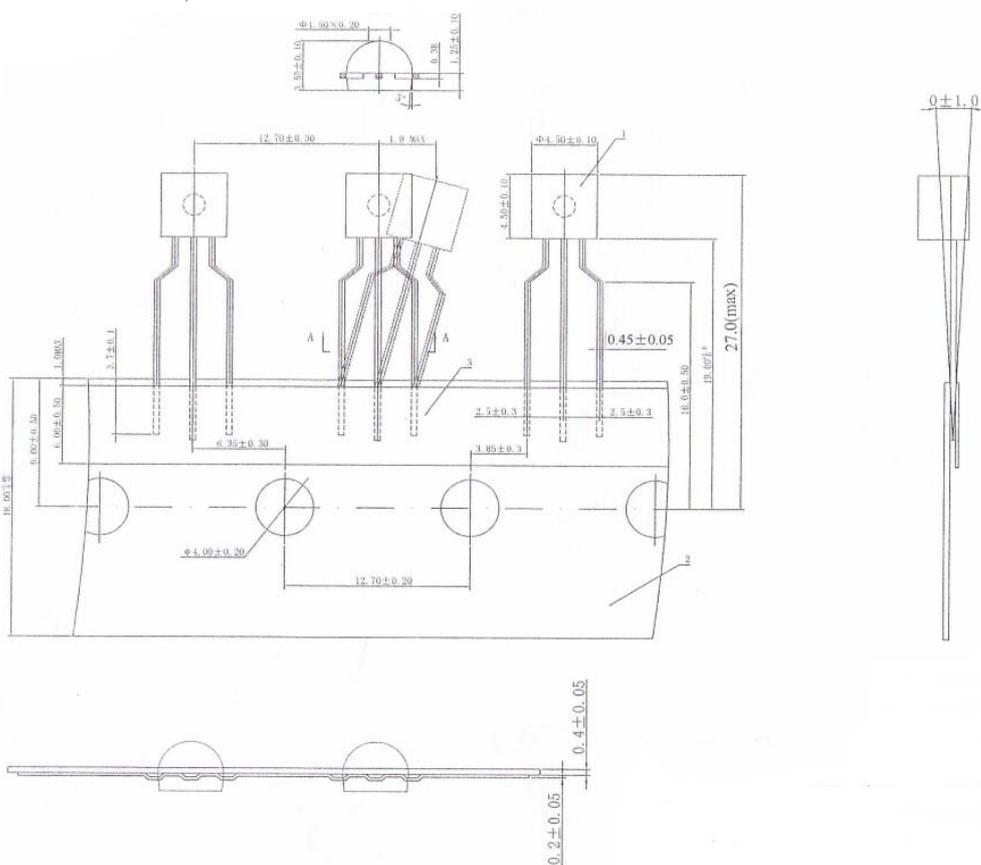
外形尺寸 PACKAGE MECHANICAL DATA

TO-92

单位 Unit : mm



<b>A</b>	3.30-3.90
<b>b</b>	0.35-0.55
<b>c</b>	0.31-0.51
<b>D</b>	4.30-4.90
<b>E</b>	4.30-4.90
<b>e</b>	1.17-1.37
<b>L</b>	12.50-15.50
<b>Q1</b>	0.74-0.89



**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

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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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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

