



# 3DD4623H

## 主要参数 MAIN CHARACTERISTICS

$I_C$	1.0A
$V_{CEO}$	800V
$V_{CES}$	1200V
$P_C(TO-92)$	1W
$P_C(TO-126)$	20W

### 用途

- 充电器
- 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

- Battery charger
- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier

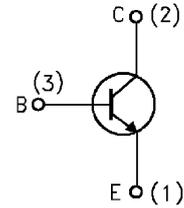
### 产品特性

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

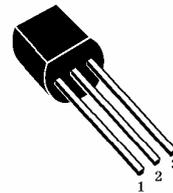
### FEATURES

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

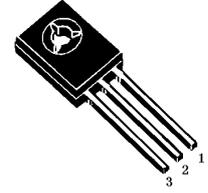
### 封装 Package



TO-92



TO-126



## 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
3DD4623H-O-T-B-A	D4623H	否 NO	TO-92	编带 Brede
3DD4623H-O-T-N-C	D4623H	否 NO	TO-92	袋装 Bag
3DD4623H-R-T-B-A	D4623H	是 YES	TO-92	编带 Brede
3DD4623H-R-T-N-C	D4623H	是 YES	TO-92	袋装 Bag
3DD4623H-O-M-N-C	D4623H	否 NO	TO-126	袋装 Bag
3DD4623H-O-M-N-B	D4623H	否 NO	TO-126	条管 Tube
3DD4623H-R-M-N-C	D4623H	是 YES	TO-126	袋装 Bag
3DD4623H-R-M-N-B	D4623H	是 YES	TO-126	条管 Tube

### 印记 SIGIL

XXXXXX  
AZNKKR

无卤素标记“R”  
Halogen Free Sign “R”





## 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>	1200	V
集电极—发射极直流电压 Collector- Emitter Voltage (I <sub>B</sub> =0)	V <sub>CEO</sub>	800	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>	1.0	A
最大集电极脉冲电流 Collector Current (pulse)	I <sub>CP</sub>	2.0	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-126)	P <sub>C</sub>	20	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	800	850	-	V
V(BR) <sub>CBO</sub>	I <sub>C</sub> =1mA, I <sub>B</sub> =0	1200	1300	-	V
V(BR) <sub>EBO</sub>	I <sub>E</sub> =1mA, I <sub>C</sub> =0	9	14	-	V
I <sub>CBO</sub>	V <sub>CB</sub> =1200V, I <sub>E</sub> =0	-	-	5	μA
I <sub>CEO</sub>	V <sub>CE</sub> =800V, I <sub>B</sub> =0	-	-	1	mA
I <sub>EBO</sub>	V <sub>EB</sub> =7V, I <sub>C</sub> =0	-	-	5	μA
hFE	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA	10	18	-	-
	V <sub>CE</sub> =5V, I <sub>C</sub> =0.2A	10	20	40	-
	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	5	8	30	-
V <sub>CE(sat)</sub>	I <sub>C</sub> =0.5A, I <sub>B</sub> =0.1A	-	0.5	1.0	V
V <sub>BE(sat)</sub>	I <sub>C</sub> =1.0A, I <sub>B</sub> =250mA	-	1.0	1.2	V
t <sub>f</sub>	V <sub>CC</sub> =125V I <sub>C</sub> =0.1A,	-	-	0.7	μS
t <sub>s</sub>	I <sub>B1</sub> =-I <sub>B2</sub> =0.02A	-	-	5	μS
f <sub>T</sub>	V <sub>CE</sub> =10V, I <sub>C</sub> =0.1A	4	-	-	MHz

## 热特性 THERMAL CHARACTERISTIC

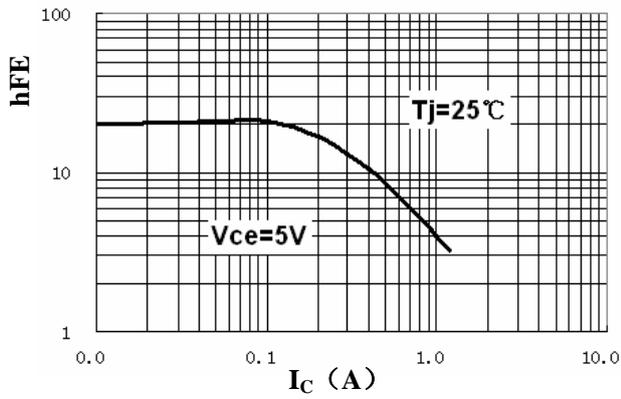
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 TO-92 Thermal Resistance Junction Case TO-92	R <sub>th(j-a)</sub>	-	125	°C/W
结到管壳的热阻 TO-126 Thermal Resistance Junction Case TO-126	R <sub>th(j-c)</sub>	-	6.25	°C/W



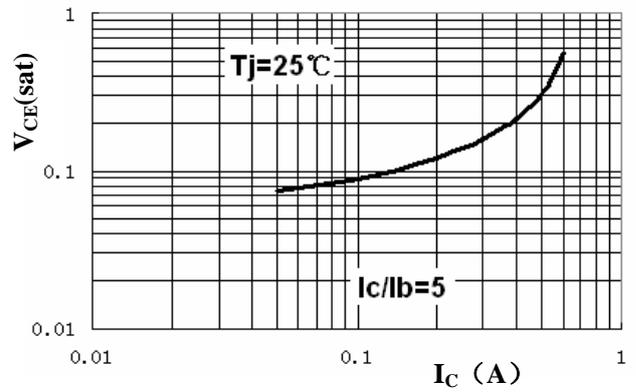


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

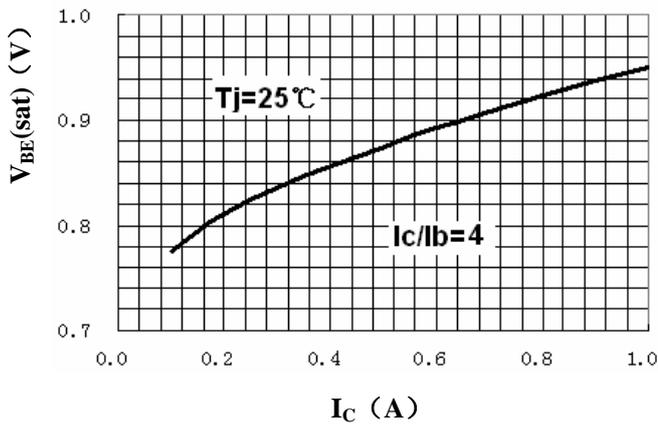
hFE - I<sub>C</sub>



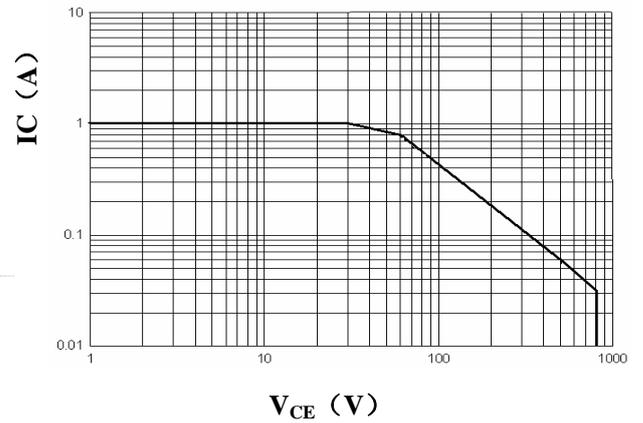
V<sub>CE(sat)</sub> - I<sub>C</sub>



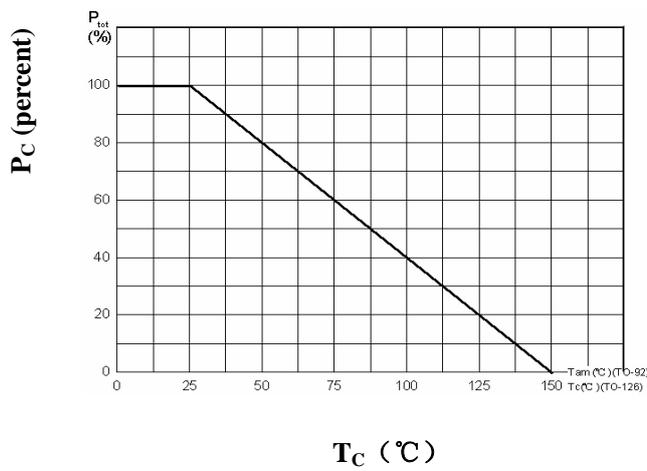
V<sub>BE (sat)</sub> - I<sub>C</sub>



SOA



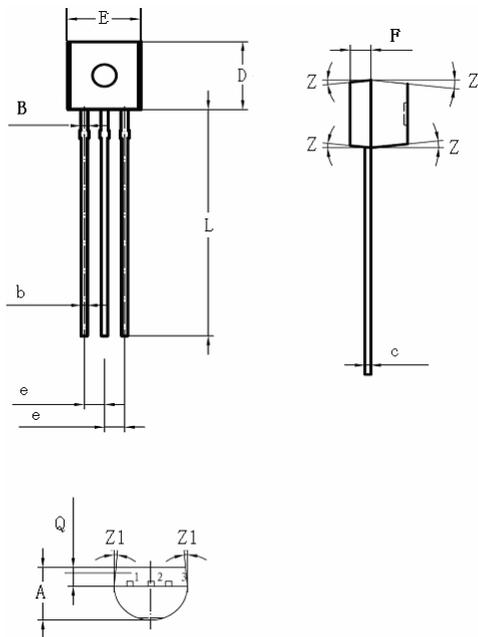
P<sub>C</sub>-T<sub>C</sub>



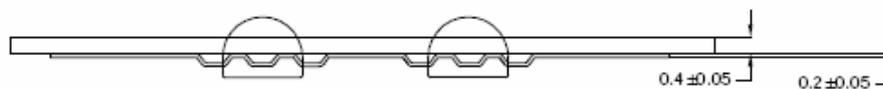
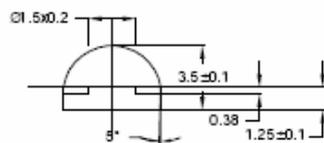
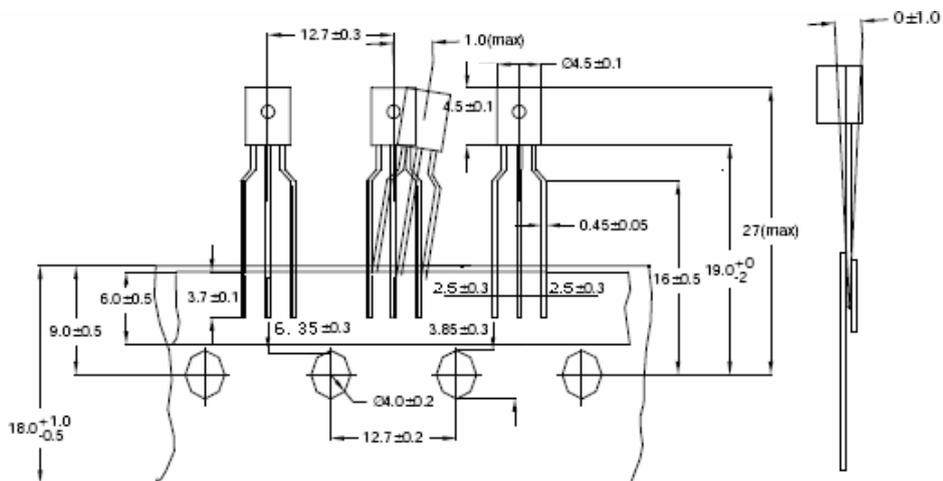


外形尺寸 PACKAGE MECHANICAL DATA  
TO-92

单位 Unit : mm



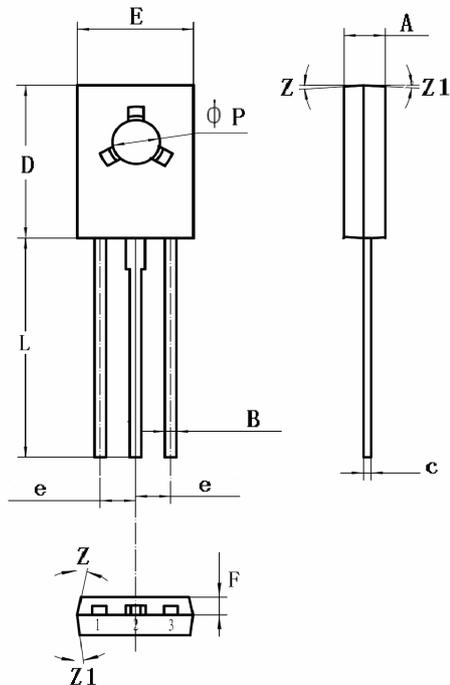
A	3.30-3.90
B	0.35-0.55
b	0.35-0.55
c	0.31-0.51
D	4.30-4.90
E	4.30-4.90
e	1.17-1.37
F	1.00-1.60
L	12.50-15.50
Q	1.00-1.60
Z	2°
Z1	5°





外形尺寸 PACKAGE MECHANICAL DATA  
TO-126

单位 Unit : mm



A	2.50-2.90
B	0.60-0.90
c	0.30-0.70
D	10.50-11.10
E	7.10-8.10
e	2.19-2.39
L	14.0-17.0
F	1.07-1.47
Z	4 <sup>°</sup>
Z1	3 <sup>°</sup>
P	2.90-3.30



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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
2009-5-11	200902A	200905B	版式
2009-5-21	200905B	200905C	hFE 典型值及测试条件
2009-10-29	200905C	200910D	电话号码、订货代码

