



# 3DD4611HT

## 主要参数 MAIN CHARACTERISTICS

$I_C$	0.5A
$V_{CEO}$	450V
$P_C(TO-92)$	1W

### 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 circuit

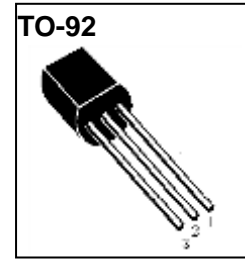
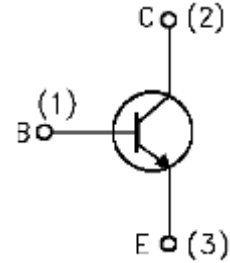
### 产品特性

- 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-编带	无卤-编带	有卤-袋装	无卤-袋装		
Halogen-Reel	Halogen-Free-Reel	Halogen-Bag	Halogen-Free-Bag	4611H	TO-92
3DD4611H-T-A	3DD4611H-T-AR	3DD4611H-T-C	3DD4611H-T-CR		



绝对最大额定值 ABSOLUTE RATINGS ( $T_c=25^\circ\text{C}$ )

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 ( $V_{BE}=0$ )	$V_{CES}$	900	V
集电极—发射极直流电压	Collector- Emitter Voltage ( $I_B=0$ )	$V_{CEO}$	450	V
发射极—基极直流电压	Emitter-Base Voltage	$V_{EBO}$	9	V
最大集电极直流电流	Collector Current (DC)	$I_C$	0.5	A
最大集电极脉冲电流	Collector Current (pulse)	$I_{CP}$	1.0	A
最大集电极耗散功率	Total Dissipation (TO-92)	$P_A$	1	W
最高结温	Junction Temperature	$T_j$	150	$^\circ\text{C}$
贮存温度	Storage Temperature	$T_{stg}$	-55~+150	$^\circ\text{C}$

## 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
$V(BR)_{CEO}$	$I_C=10\text{mA}, I_B=0$	450	500	-	V
$V(BR)_{CBO}$	$I_C=1\text{mA}, I_E=0$	900	980	-	V
$V(BR)_{EBO}$	$I_E=1\text{mA}, I_C=0$	9	14	-	V
$I_{CBO}$	$V_{CB}=900\text{V}, I_E=0$	-	-	1	$\mu\text{A}$
$I_{CEO}$	$V_{CE}=450\text{V}, I_B=0$	-	-	1	mA
$I_{EBO}$	$V_{EB}=9\text{V}, I_C=0$	-	-	0.50	$\mu\text{A}$
hFE	$V_{CE}=5\text{V}, I_C=20\text{mA}$	20	30	40	-
	$V_{CE}=5\text{V}, I_C=0.5\text{A}$	3	6	-	-
$V_{CE(sat)}$	$I_C=0.3\text{A}, I_B=0.06\text{A}$	-	0.30	0.80	V
$V_{BE(sat)}$	$I_C=0.3\text{A}, I_B=0.06\text{A}$	-	0.90	1.35	V
tf	$V_{CC}=24\text{V}, I_C=0.3\text{A}, I_{B1}=-I_{B2}=0.06\text{A}$	-	-	0.70	$\mu\text{S}$
fT	$V_{CE}=10\text{V}, I_C=0.02\text{A}$	5	-	-	MHz

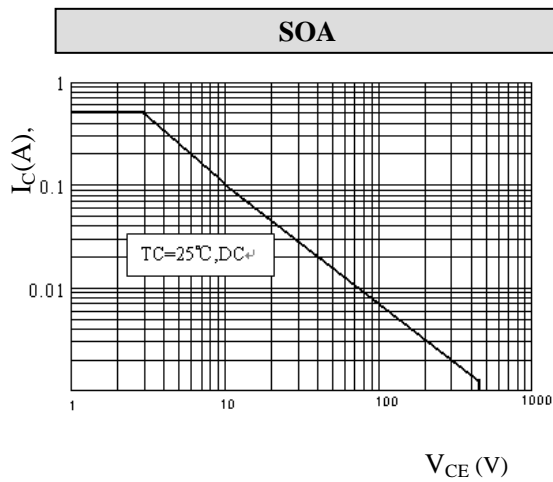
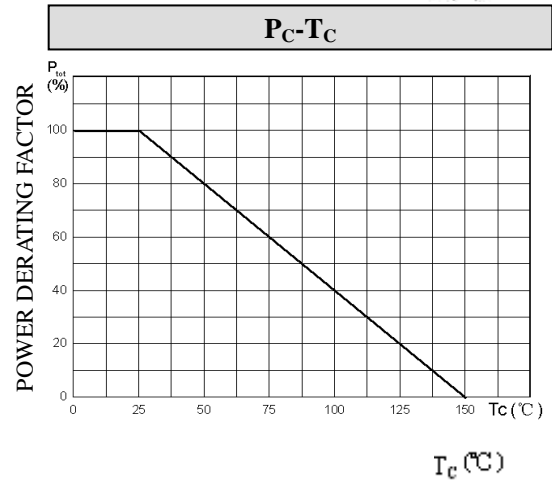
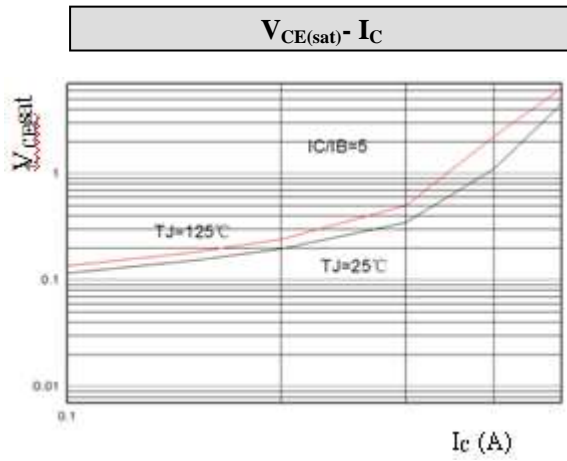
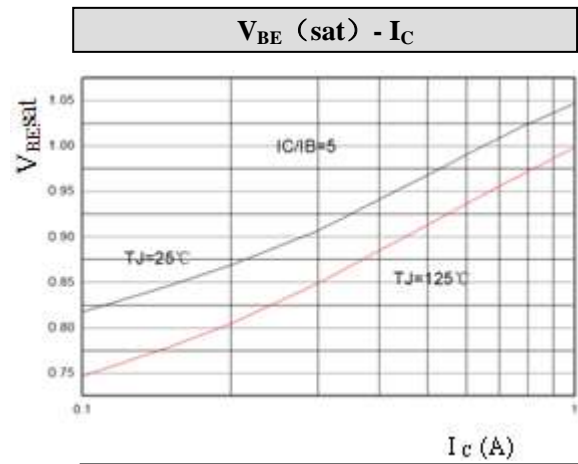
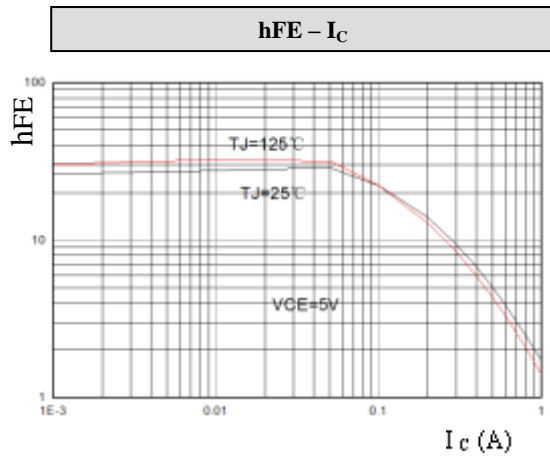
## 热特性 THERMAL CHARACTERISTIC

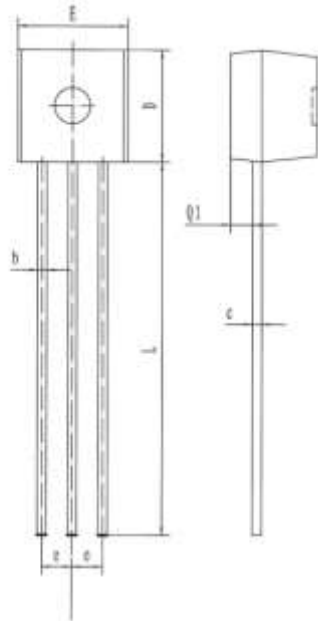
项 目 Parameter	符 号 Symbol	最小值 min	最大值 max	单 位 Unit
结到环境的热阻 Thermal Resistance Junction Ambient TO-92	$R_{th(j-a)}$	-	125	$^\circ\text{C}/\text{W}$



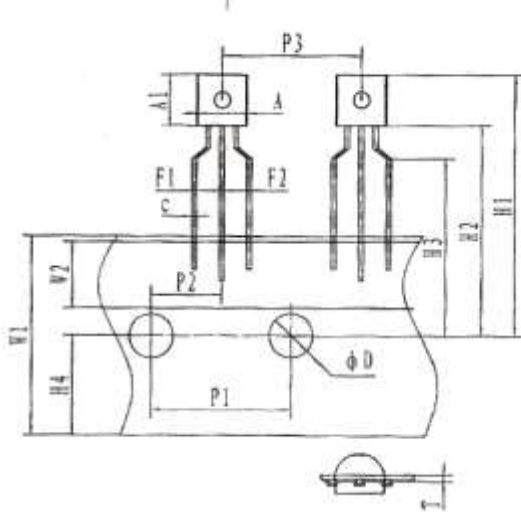
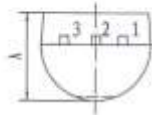


特征曲线 ELECTRICAL CHARACTERISTICS (curves)





符号 Symbol	尺寸 (mm) Size (mm)
A	3.30-3.90
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
L	12.50-15.50
Q1	0.85-1.00



符号 Symbol	尺寸 (mm) Size (mm)
A	4.30-4.90
A1	4.30-4.90
A2	3.30-3.90
c	TYP 0.45
F1/F2	2.20-2.80
W1	17.5-18.5
W2	5.50-6.50
H1	22.0-27.0
H2	18.0-20.0
H3	15.0-17.0
H4	8.50-9.50
P1	12.5-12.9
P2	6.00-6.70
P3	12.5-12.9
T	0.40-0.45
φ D	3.80-4.20
ΔH	0.00-1.00



**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

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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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