



3DD4612D

主要参数 MAIN CHARACTERISTICS

I_C	1.5A
V_{CEO}	450V
$P_C(TO-92)$	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 circuit

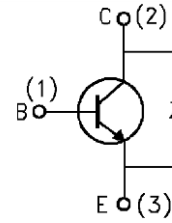
产品特性

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

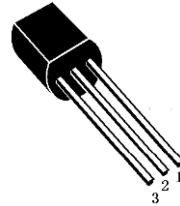
FEATURES

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

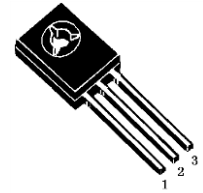
封装 Package



TO-92



TO-126



订货信息 ORDER MESSAGE

订货型号 Order codes				印 记 Marking	封 装 Package
有卤-编带	有卤-编带	有卤-袋装	有卤-袋装		
Halogen-Reel	Halogen-Free-Reel	Halogen-Bag	Halogen-Free-Bag	4612D	TO-92
3DD4612D-T-A	3DD4612D-T-AR	3DD4612D-T-C	3DD4612D-T-CR	4612D	TO-126
N/A	N/A	3DD4612D-M-C	3DD4612D-M-CR		
有卤-条管	有卤-条管			印 记 Marking	封 装 Package
Halogen-Tube	Halogen-Free-Tube			4612D	TO-126
3DD4612D-M-B	3DD4612D-M-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}	700	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	1.5	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	3.0	A
最大集电极耗散功率 Total Dissipation (TO-92)	P _C	1	W
最大集电极耗散功率 Total Dissipation (TO-126)	P _C	20	W
最高结温 Junction Temperature	T _j	150	℃
贮存温度 Storage Temperature	T _{stg}	-55~+150	℃

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 _B =0	450	500	-	V
V(BR) _{CBO}	I _C =1mA, I _E =0	700	800	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	9	14	-	V
I _{CBO}	V _{CB} =700V, I _E =0	-	-	1	μA
I _{CEO}	V _{CE} =450V, I _B =0	-	-	1	mA
I _{EBO}	V _{EB} =7V, I _C =0	-	-	0.5	μA
hFE	V _{CE} =10V, I _C =100mA	10	22	40	-
	V _{CE} =5V, I _C =1.5A	3.0	5.0	-	-
V _{CE(sat)}	I _C =0.5A, I _B =0.1A	-	0.3	0.8	V
V _{BE(sat)}	I _C =0.5A, I _B =0.1A	-	1.0	1.2	V
tf	V _{CC} =24V I _C =0.25A, I _{B1} =-I _{B2} =0.05A	-	-	0.7	μS
ts	I _C =0.25A	1.5	-	4.0	μS
ft	V _{CE} =10V, I _C =0.1A	4	-	-	MHz

热特性 THERMAL CHARACTERISTIC

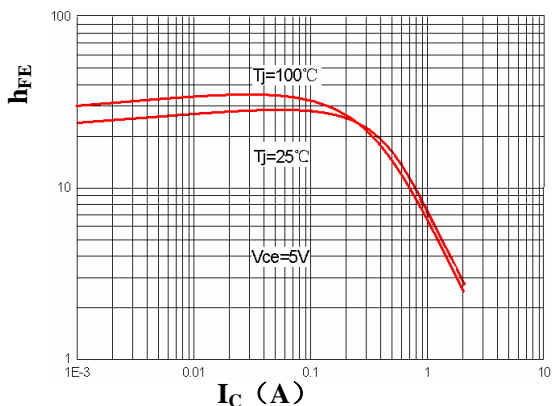
项 目 Parameter	符 号 Symbol	最小值 min	最大值 max	单 位 Unit
结到环境的热阻 Thermal Resistance Junction Ambient TO-92	R _{th(j-a)}	-	125	℃/W
结到管壳的热阻 Thermal Resistance Junction Case TO-126	R _{th(j-c)}	-	6.25	℃/W



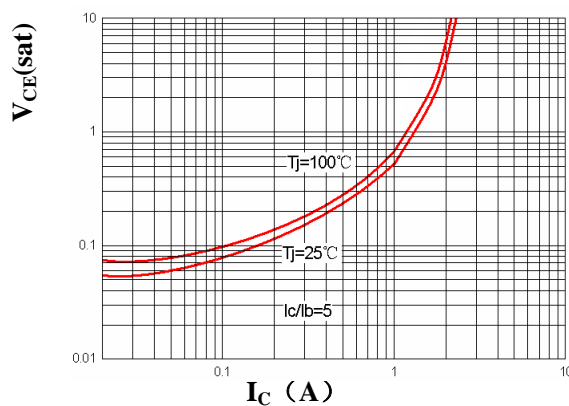


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

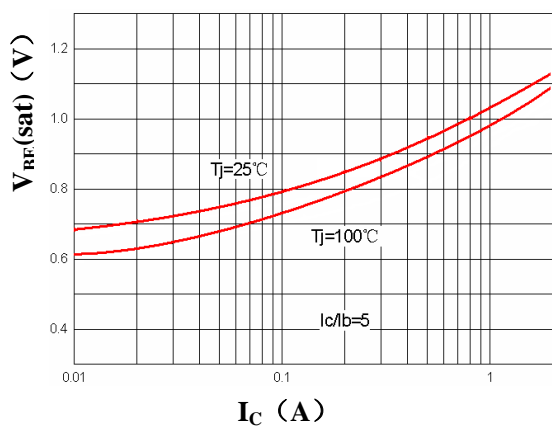
hFE - I_C



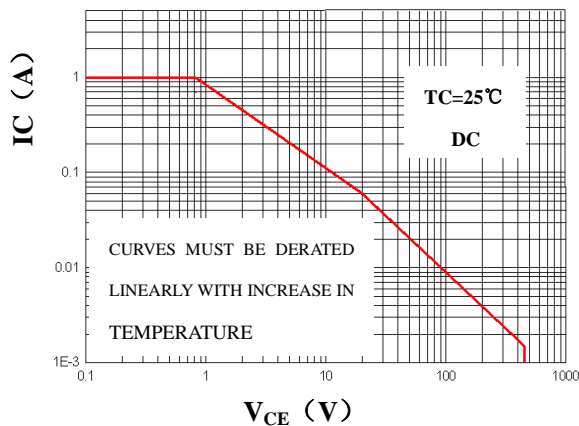
V_{CE(sat)} - I_C



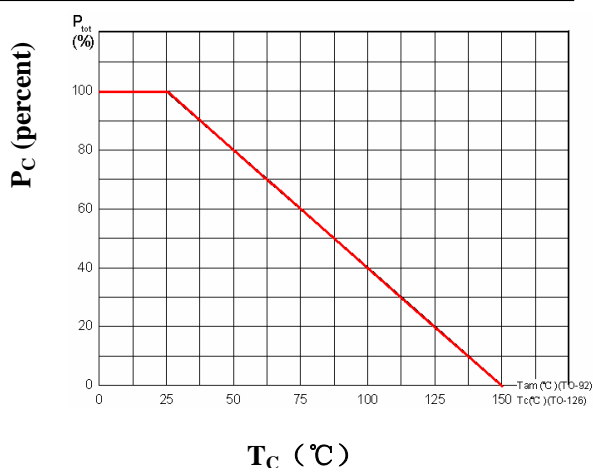
V_{BE (sat)} - I_C

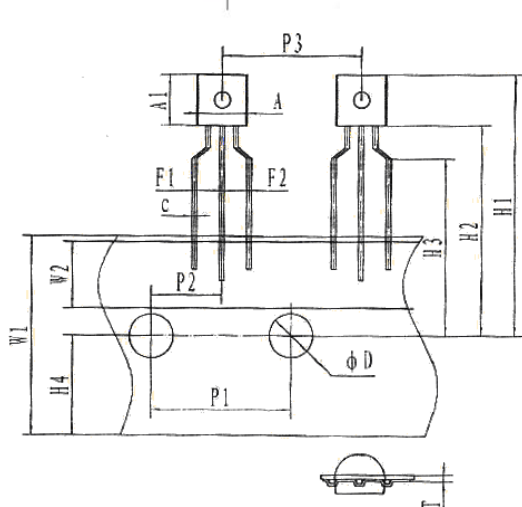
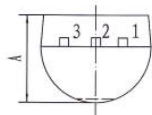
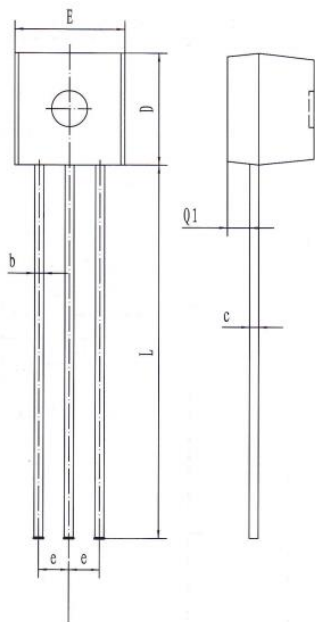


SOA



P_C-T_C





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



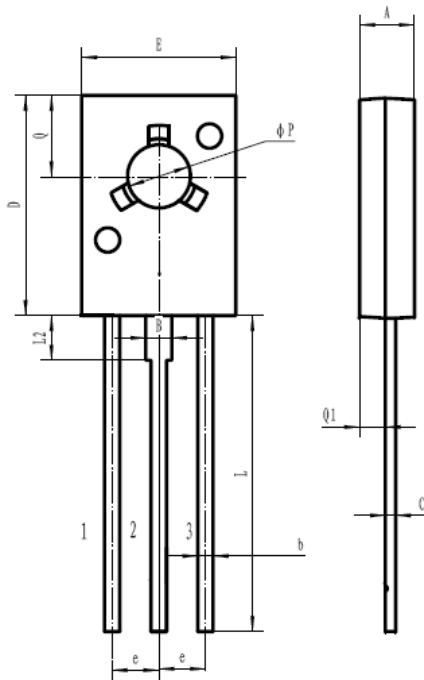


3DD4612D

外形尺寸 PACKAGE MECHANICAL DATA

TO-126

单位 Unit : mm



A	2.50-2.90
B	1.22-1.47
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	15.30-15.70
L2	2.10-2.30
Q	3.80-4.20
Q1	1.07-1.47
P	3.00-3.20



**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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