



3CG3906

主要参数 MAIN CHARACTERISTICS

I_C	-0.2A
V_{CEO}	-40V
P_C (TO-92)	0.625W
P_C (SOT-23)	0.350W

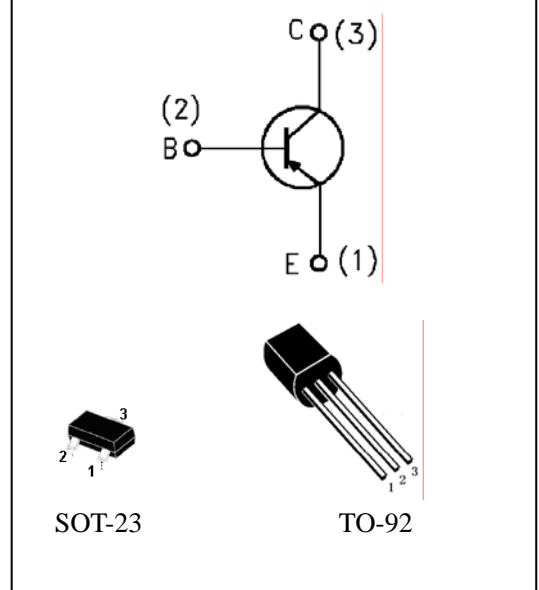
用途

- 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

封装 Package



产品特性

- 硅外延
- 高开关速度
- 与 3DG3904 互补
- 环保 (RoHS) 产品

FEATURES

- Epitaxial silicon
- High switching speed
- Complementary to 3DG3904
- 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
3CG3906-O-T-N-C	3906	否 NO	TO-92	袋装 Bag
3CG3906-O-T-N-A	3906	否 NO	TO-92	编带 Brede
3CG3906-O-N1-N-A	J	否 NO	SOT-23	编带 Brede





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—基极直流电压	Collector- Base Voltage (I _E =0)	V _{CB0}	-40 V
集电极—发射极直流电压	Collector- Emitter Voltage (I _B =0)	V _{CEO}	-40 V
发射极—基极直流电压	Emitter-Base Voltage (I _C =0)	V _{EBO}	-5 V
最大集电极直流电流	Collector Current (DC)	I _C	-0.2 A
最大集电极耗散功率	Total Dissipation (TO-92)	P _C	0.625 W
最大集电极耗散功率	Total Dissipation (SOT-23)	P _C	0.350 W
最高结温	Junction Temperature	T _j	150 °C
贮存温度	Storage Temperature	T _{stg}	-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) _{CB0}	I _C =-10uA, I _E =0	-40	-	-	V
V(BR) _{CEO}	I _C =-1mA, I _B =0	-40	-	-	V
V(BR) _{EBO}	I _E =-10uA, I _C =0	-5	-	-	V
I _{CB0}	V _{CB} =-30V, I _E =0	-	-	-50	nA
I _{EBO}	V _{EB} =-3V, I _C =0	-	-	-50	nA
hFE	V _{CE} =-1V, I _C =-0.1mA	60			
	V _{CE} =-1V, I _C =-1mA	80			
	V _{CE} =-1V, I _C =-10mA	100	200	300	
	V _{CE} =-1V, I _C =-50mA	60			
	V _{CE} =-1V, I _C =-100mA	30			
V _{CE(sat)}	I _C =-10mA, I _B =-1mA	-	-	-0.25	V
	I _C =-50mA, I _B =-5mA	-	-	0.4	
V _{BE(sat)}	I _C =-10mA, I _B =-1mA	-	-	-0.85	V
	I _C =-50mA, I _B =-5mA	-	-	-0.95	
f _T	V _{CE} =-10V, I _C =-10mA	250	-	-	MHz

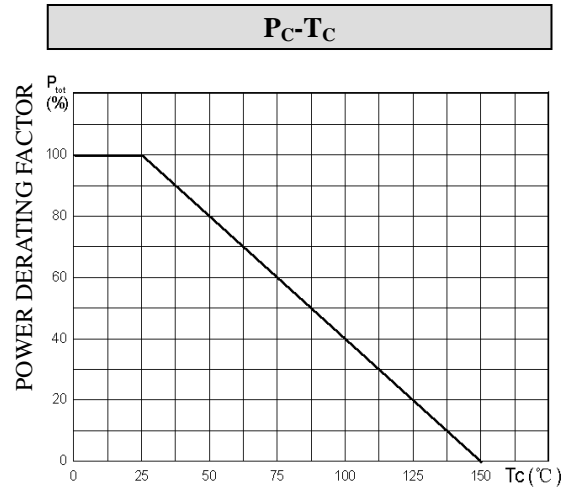
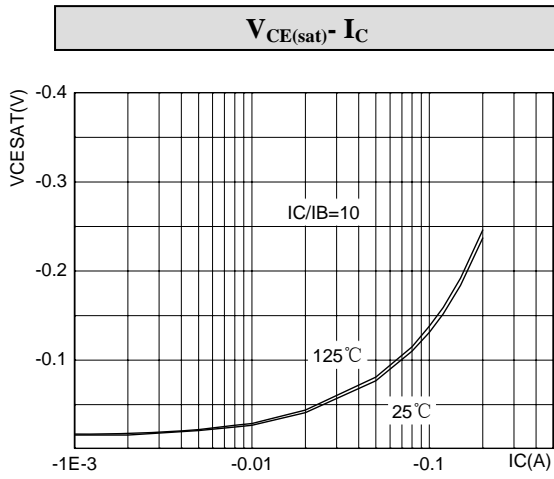
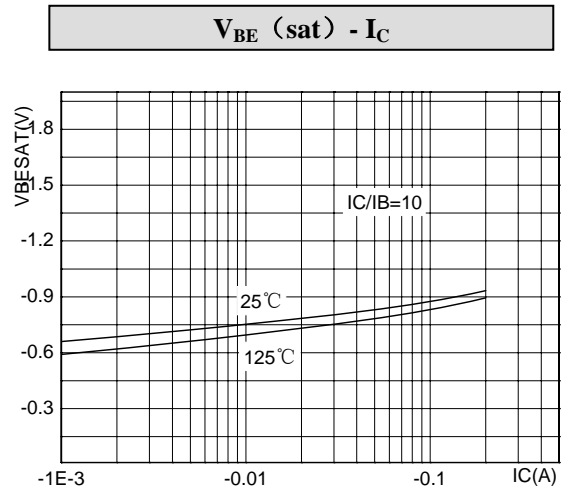
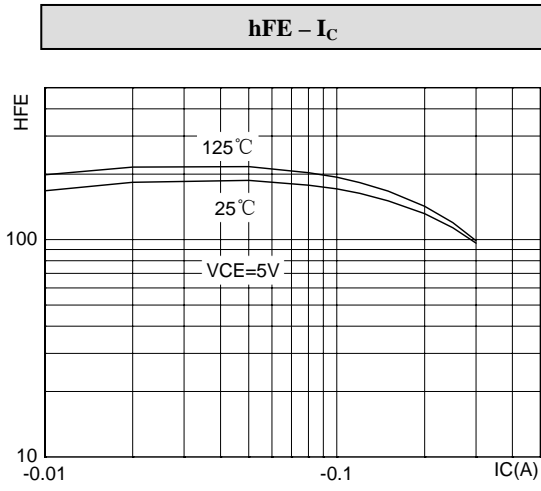
热特性 THERMAL CHARACTERISTIC

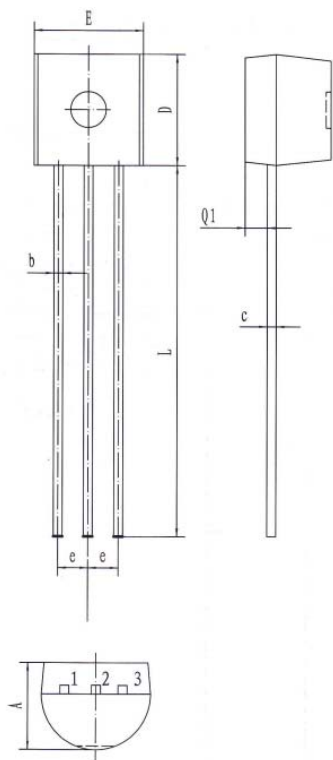
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 TO-92 Thermal Resistance Junction Ambient TO-92	R _{th(j-a)}	-	200	°C/W
结到环境的热阻 SOT-23 Thermal Resistance Junction Ambient SOT-23	R _{th(j-a)}	-	357	°C/W



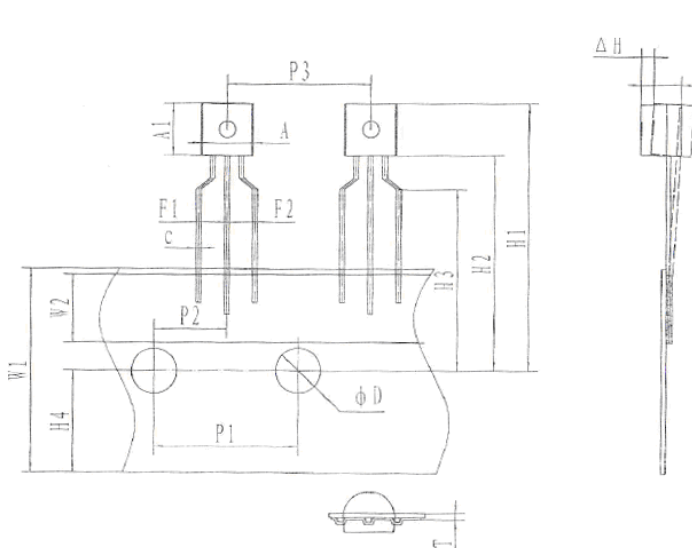


特征曲线 ELECTRICAL CHARACTERISTICS (curves)



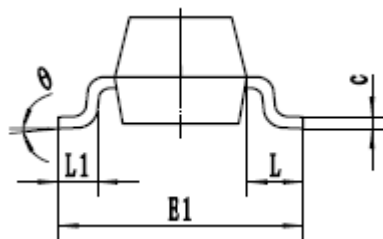
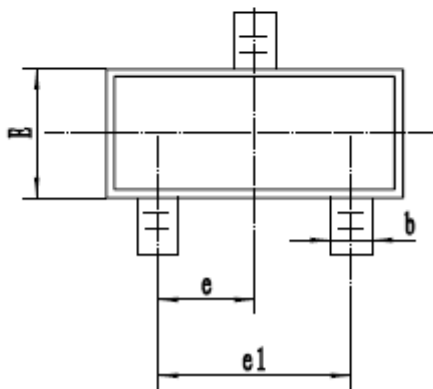
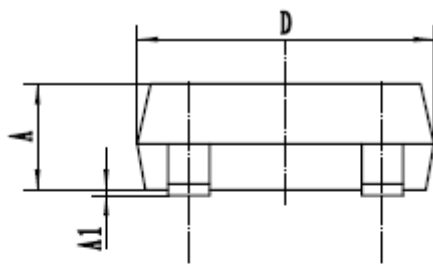


符号 Symbol	尺寸 (mm) Size (mm)
A	3.30-3.90
b	0.35-0.55
c	0.31-0.51
D	4.30-4.90
E	4.30-4.90
e	1.17-1.37
L	12.50-15.50
Q1	0.85-1.00



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
△H	0.00-1.00





SYMBOL	mm	
	MIN	MAX
A	0.85	1.20
A1	0.00	0.15
b	0.25	0.60
c	0.075	0.20
D	2.75	3.05
E	1.15	1.45
E1	2.20	2.60
e	0.950TYP	
e1	1.75	2.05
L	0.55REF	
L1	0.15	0.55
θ	0°	10°



**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。

NOTE

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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.

联系方式**吉林华微电子股份有限公司**

公司地址：吉林省吉林市深圳街 99 号

邮编：132013

总机：86-432-64678411

传真：86-432-64665812

网址：www.hwdz.com.cn

销售业务部

地址：吉林省吉林市深圳街 99 号

邮编：132013

电话：86-432-64675588

64675688

64678411

传真：86-432-64671533

CONTACT**JILIN SINO-MICROELECTRONICS CO., LTD.**

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64678411

Fax: 86-432-64665812

Web Site: www.hwdz.com.cn

MARKET DEPARTMENT

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64675588

64675688

64678411

Fax: 86-432-64671533

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
2015-9-18		201509A	新版本
2015-10-29	201509A	201510B	修订 ft

