



DB805D

主要参数 MAIN CHARACTERISTICS

I_C	4A
V_{CEO}	400V
P_{TOT} $T_{amb} = 25\text{ }^\circ\text{C}$ single transistor	3W
P_{TOT} $T_{case} = 25\text{ }^\circ\text{C}$ single transistor	45W

用途

- 220 V 电源用紧凑型荧光灯 (CFL)
- 电子镇流器

APPLICATIONS

- Compact fluorescent lamp (CFL) 220 V mains
- Electronic ballast for fluorescent lighting

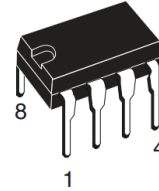
产品特性

- 高耐压
- 低饱和压降
- 开关速度快
- 简化电路设计
- 减少组件数量

FEATURES

- High breakdown voltage
- Low $V_{CE(sat)}$
- Fast switching speed
- Simplified circuit design
- Reduced component count

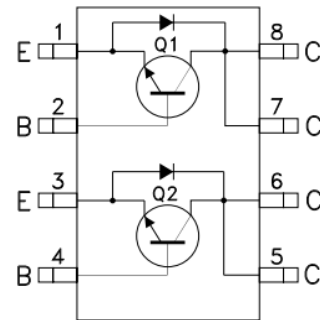
封装 Package



DIP-8

内部原理图

Internal schematic diagram



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
DB805D	DB805D	否 NO	DIP-8	条管 Tube





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 _{BE} =0)	V _{CES}	700	V
集电极—发射极直流电压 Collector- Emitter Voltage (I _B =0)	V _{CEO}	400	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	4	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	8	A
最大基极直流电流 Base Current (DC)	I _B	2	A
最大基极脉冲电流 Base Current (pulse)	I _{BP}	4	A
最大集电极耗散功率 Total Dissipation (T _{amb} = 25 °C single transistor)	P _{TOT}	3	W
最大集电极耗散功率 Total Dissipation (T _{case} = 25 °C single transistor)	P _{TOT}	45	W
最大集电极耗散功率 Total Dissipation (TO-220C/262/263)	P _C	75	W
最高结温 Junction Temperature	T _j	150	°C
贮存温度 Storage Temperature	T _{stg}	-55~+150	°C

注：pulse电流宽度为小于5ms的非重复单脉冲。 Pulse Test: Pulse Width = 5.0 ms, Duty Cycle < 10%.

电特性 EIECTRICAL 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	400	-	-	V
V(BR) _{CBO}	I _C =1mA, I _B =0	700	-	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	9	-	-	V
I _{CBO}	V _{CB} =700V, I _E =0	-	-	100	μA
I _{CEO}	V _{CE} =400V, I _B =0	-	-	50	μA
I _{EBO}	V _{EB} =9V, I _C =0	-	-	10	μA
Hfe(1)	V _{CE} =10V, I _C =500mA	20	-	30	
Hfe(2)	V _{CE} =5V, I _C =2A	5	-	-	
V _{CE(sat)}	I _C =2A, I _B =0.4A	-	-	1.0	V
V _{BE(sat)}	I _C =2A, I _B =0.5A	-	-	1.8	V
tf	V _{CC} =24V I _C =2A, I _{B1} =-I _{B2} =0.4A	-	-	0.7	μS
ts		-	-	5	μS
fT	V _{CE} =10V, I _C =0.5A	4	-	-	MHz

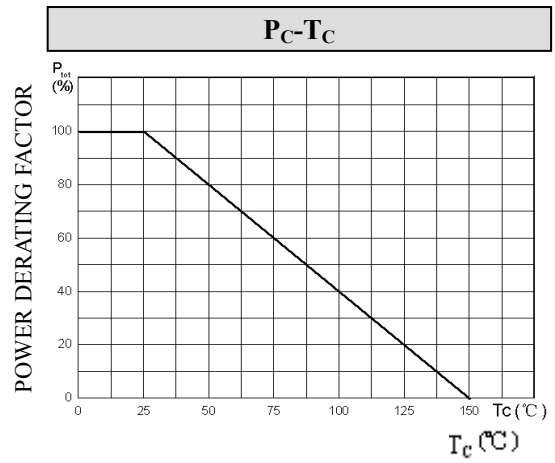
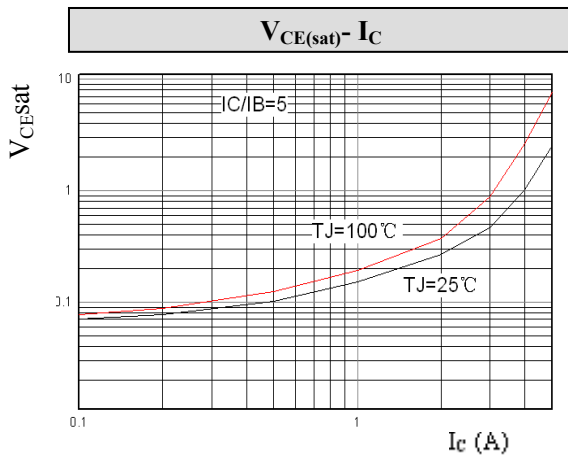
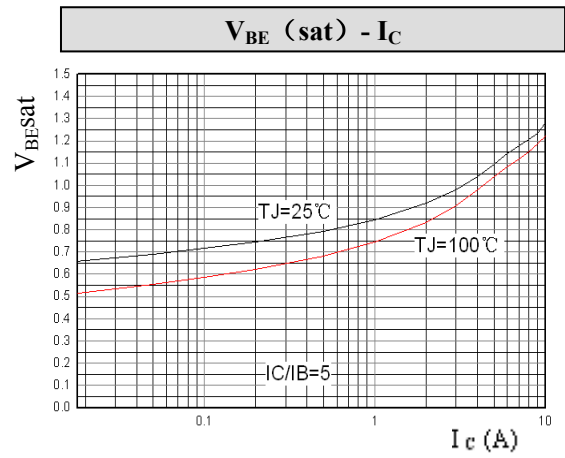
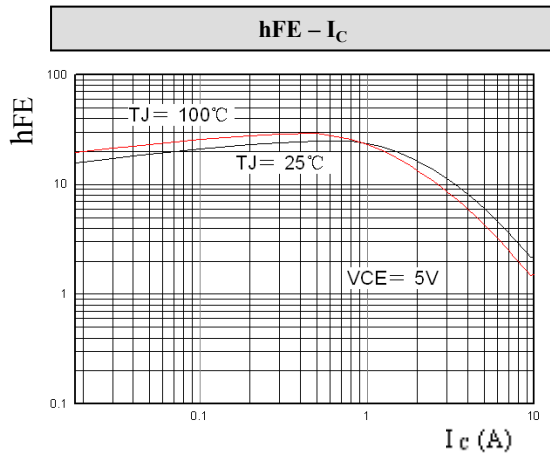
热特性 THERMAL CHARACTERISTIC

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(单管) Thermal Resistance Junction Ambient (single transistor)	R _{th(j-c)}	-	42	°C/W
结到管壳的热阻(单管) Thermal Resistance Junction Case (single transistor)	R _{th(j-c)}	-	2.7	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

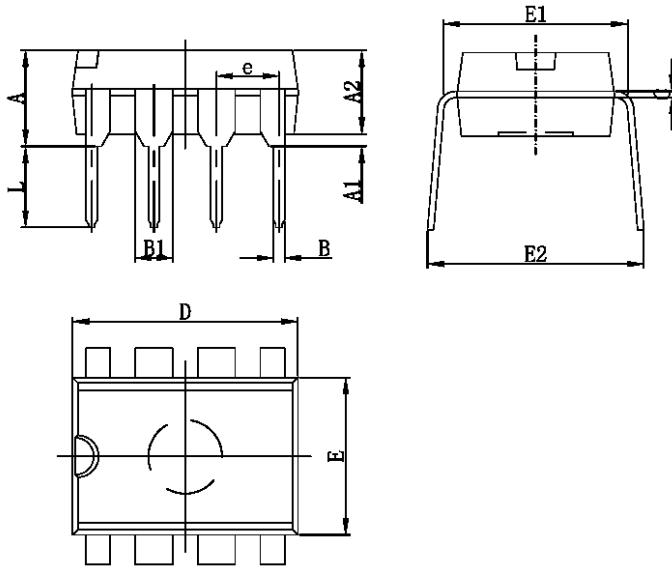




外形尺寸 PACKAGE MECHANICAL DATA

单位 Unit : mm

DIP-8



符号	尺寸 (mm)
A	3.71-4.31
A1	>0.51
A2	3.20-3.60
B	0.38-0.57
B1	1.47-1.57
C	1.524(Typ.)
D	9.00-9.40
E	6.20-6.60
E1	7.32-7.92
e	2.54(Typ.)
L	3.00-3.60
E2	8.40-9.00



**注意事项**

1. 吉林华微电子股份有限公司的产品销售分为直销和销售代理，无论哪种方式，订货时请与公司核实。
2. 购买时请认清公司商标，如有疑问请与公司本部联系。
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

1. Jilin Sino-microelectronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
2. We strongly recommend customers check carefully on the trademark when buying our product, if there is any question, please don't be hesitate to contact us.
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

64678411-3098/3099

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

64678411-3098/3099

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
2013-11-13		201311A	

