



3DD4205D

主要参数 MAIN CHARACTERISTICS

I_C	4A
V_{CEO}	400V
$P_C(TO-126)$	40W
$P_C(TO-220)$	75W

用途

- 节能灯
- 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

- Energy-saving light
- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier

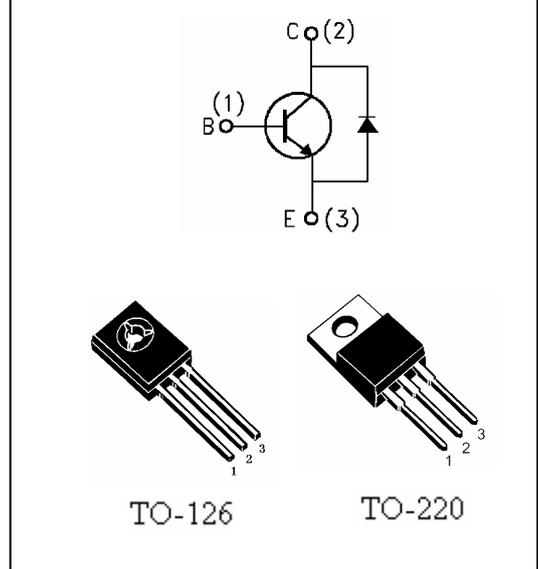
产品特性

- 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



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
3DD4205D-O-M-N-C	D4205D	否 NO	TO-126	袋装 Bag
3DD4205D-O-Z-N-C	D4205D	否 NO	TO-220	袋装 Bag





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 (TO-126)	P _C	40	W
最大集电极耗散功率 Total Dissipation (TO-220)	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 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	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} =5V, I _C =5mA	6	-	40	
Hfe(2)	V _{CE} =5V, I _C =500mA	8	-	40	
V _{CE(sat)} (1)	I _C =1A, I _B =0.2A	-	-	1.5	V
V _{CE(sat)} (2)	I _C =3A, I _B =1A	-	-	1.8	V
V _{BE(sat)}	I _C =2A, I _B =0.5A	-	-	1.6	V
tf	V _{CC} =24V I _C =2A, I _{B1} =-I _{B2} =0.4A	-	-	0.7	μS
ts		-	-	4	μS
ft	V _{CE} =10V, I _C =0.5A	4	-	-	MHz

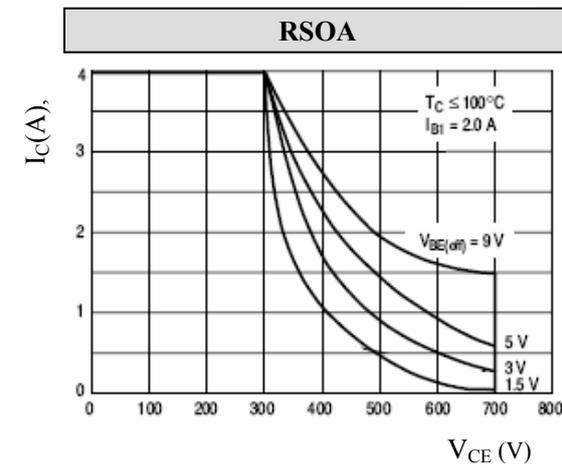
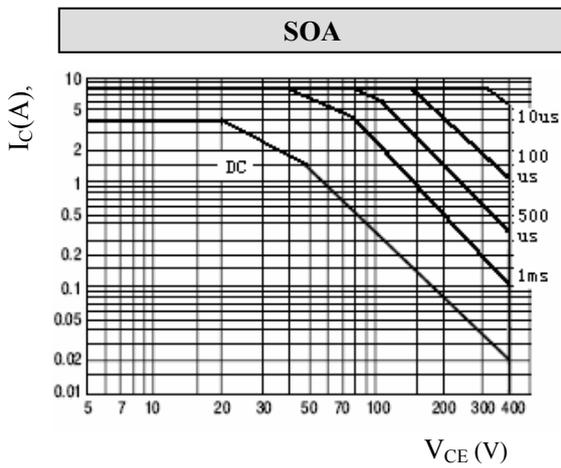
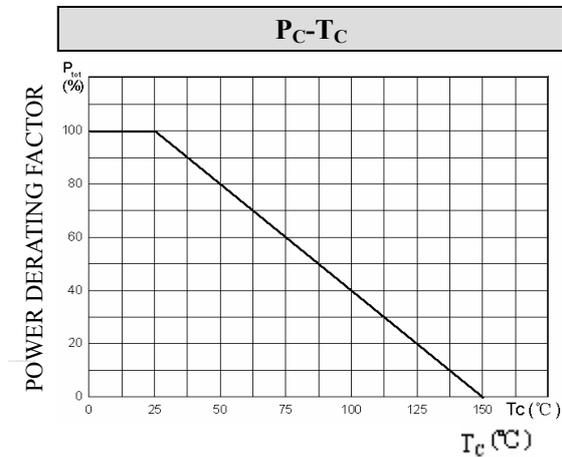
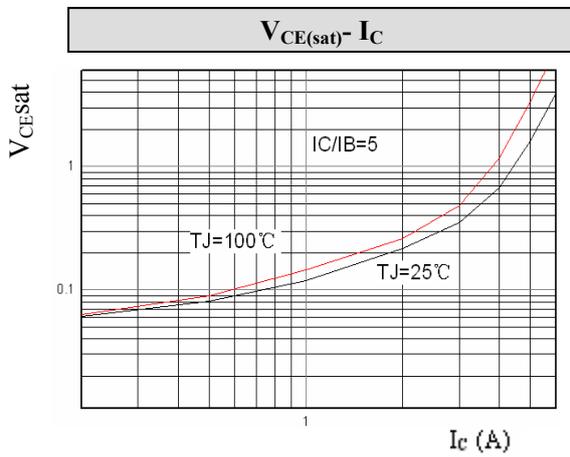
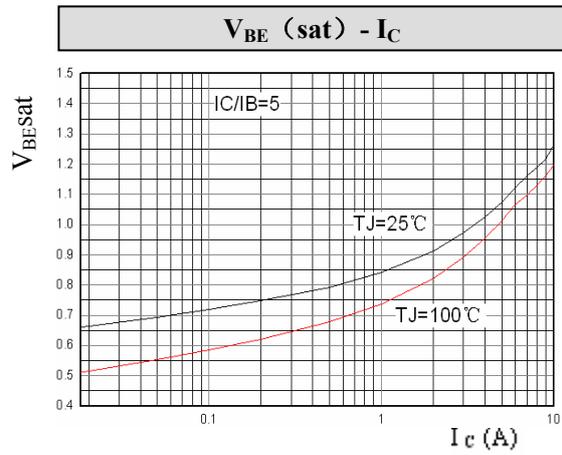
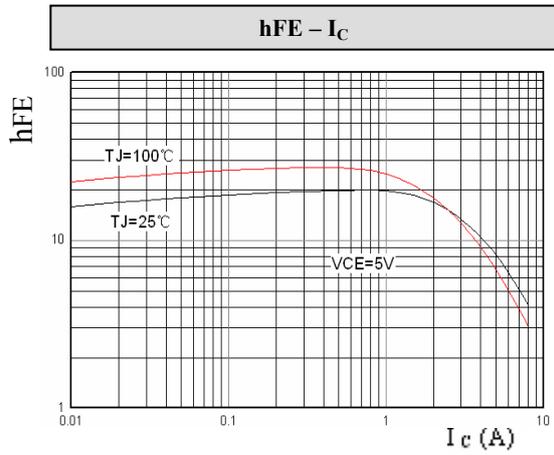
热特性 THERMAL CHARACTERISTIC

项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到管壳的热阻 TO-126 Thermal Resistance Junction Case TO-126	R _{th(j-c)}	-	3.125	°C/W
结到管壳的热阻 TO-220 Thermal Resistance Junction Case TO-220	R _{th(j-c)}	-	1.67	°C/W





特征曲线 ELECTRICAL CHARACTERISTICS (curves)

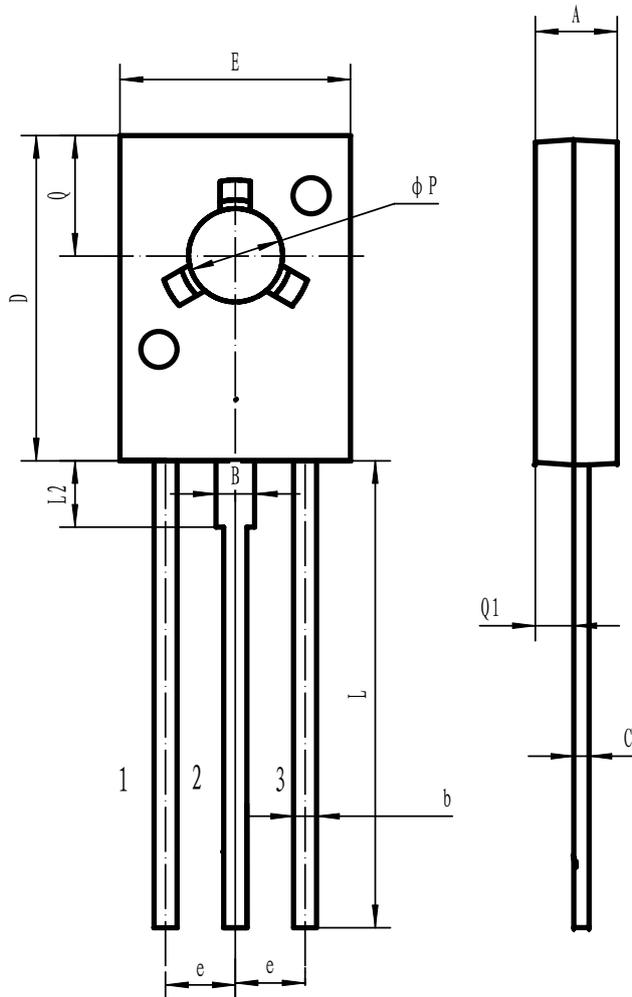




外形尺寸 PACKAGE MECHANICAL DATA

单位 Unit : mm

TO-126

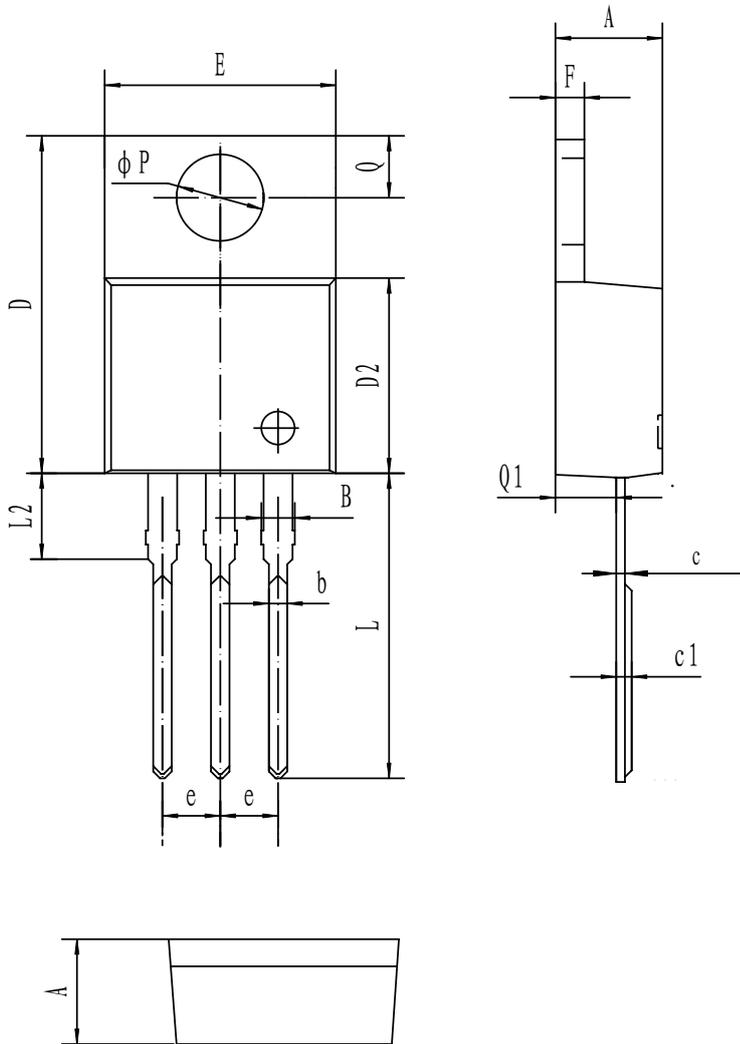


符号 symbol	MIN	MAX
A	2.50	2.90
B	1.22	1.28
C	0.30	0.70
D	10.50	11.10
E	7.10	8.10
Q	3.80	4.20
Q1	1.07	1.47
L	15.35	15.60
L2	2.10	2.30
b	0.60	0.90
e	2.19	2.39





TO-220



符号 symbol	MIN	MAX
A	4.40	4.80
B	1.10	1.40
b	0.70	0.95
c	0.28	0.48
c1	0.32	0.52
D	14.45	16.00
D2	8.20	9.20
E	9.60	10.40
e	2.39	2.69
F	1.20	1.35
L	13.05	14.05
L2	3.70	3.90
Q	2.40	3.00
Q1	2.20	2.90
P	3.50	4.00



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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
2009-10-23	200905B	200910C	电话、传真号码升位

