



3DD13001S

主要参数 MAIN CHARACTERISTICS

I_C	0.5A
V_{CEO}	400V
$P_C(TO-92)$	1W

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

- Electronic ballasts
- High frequency switching power supply
- High frequency power transform
- Commonly power amplifier circuit

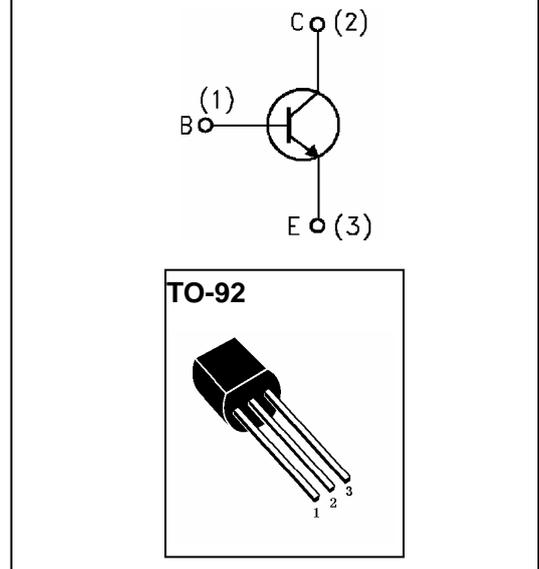
产品特性

- 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	无卤素 Halogen Free	封装 Package	包装 Packaging
3DD13001S-O-T-B-A	13001S	否 NO	TO-92	编带 Brede
3DD13001S-O-T-N-C	13001S	否 NO	TO-92	袋装 Bag



**绝对最大额定值 ABSOLUTE RATINGS (Tc=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}	600	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	0.5	A
最大集电极脉冲电流 Collector Current (pulse)	I _{CP}	1	A
最大集电极耗散功率 Total Dissipation (TO-92)	P _C	1	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	400	470	-	V
V(BR) _{CBO}	I _C =1mA, I _B =0	600	830	-	V
V(BR) _{EBO}	I _E =1mA, I _C =0	9	14	-	V
I _{CBO}	V _{CB} =580V, I _E =0	-	-	5	μA
I _{CEO}	V _{CE} =390V, I _B =0	-	-	10	μA
I _{EBO}	V _{EB} =9V, I _C =0	-	-	5	μA
hFE	V _{CE} =20V, I _C =20mA	10	20	40	-
V _{CE(sat)}	I _C =0.05A, I _B =5mA	-	0.4	0.5	V
	I _C =0.1A, I _B =10mA	-	0.3	1.0	V
V _{BE(sat)}	I _C =0.05A, I _B =5mA	-	0.8	1.2	V
t _f	V _{CC} =24V I _C =0.1A, I _{B1} =-I _{B2} =0.02A	-	-	0.7	μS
t _s		-	-	4	μS
f _T	V _{CE} =10V, I _C =0.02A	4	-	-	MHz

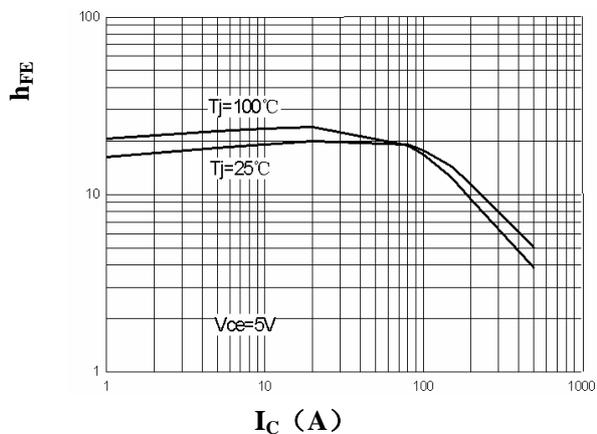
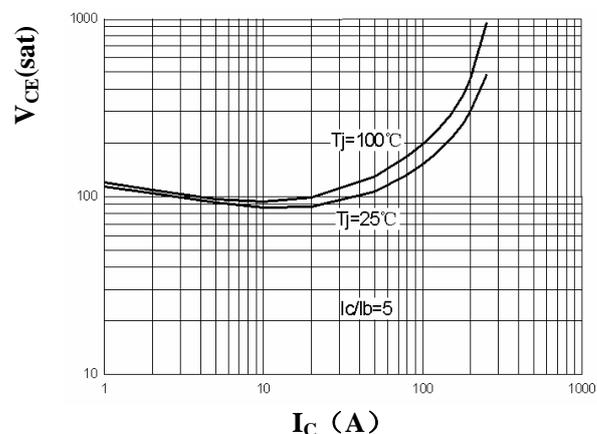
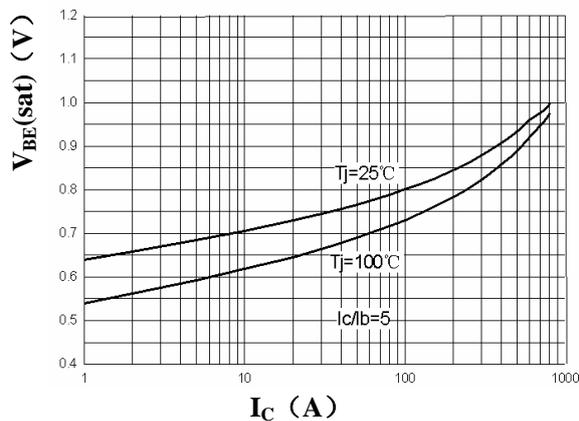
热特性 THERMAL CHARACTERISTIC

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 TO-92 Thermal Resistance Junction Case TO-92	R _{th(j-a)}	-	125	℃/W

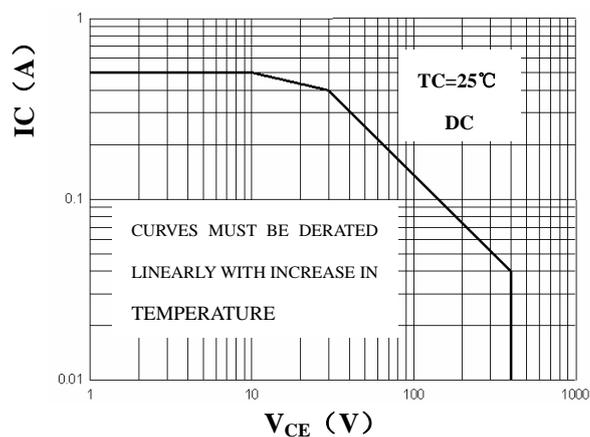
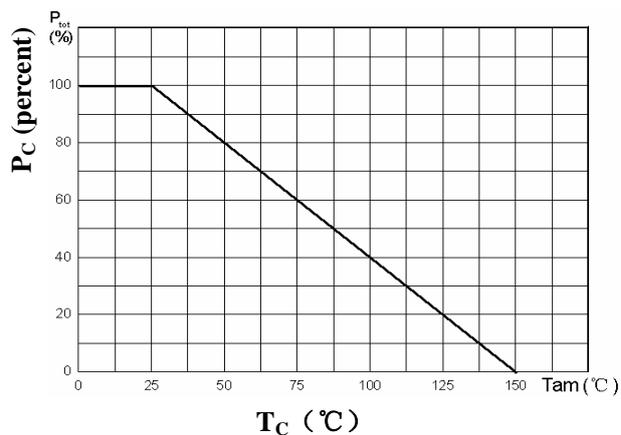




特征曲线 ELECTRICAL CHARACTERISTICS (curves)

hFE - I_C $V_{CE(sat)}$ - I_C $V_{BE(sat)}$ - I_C

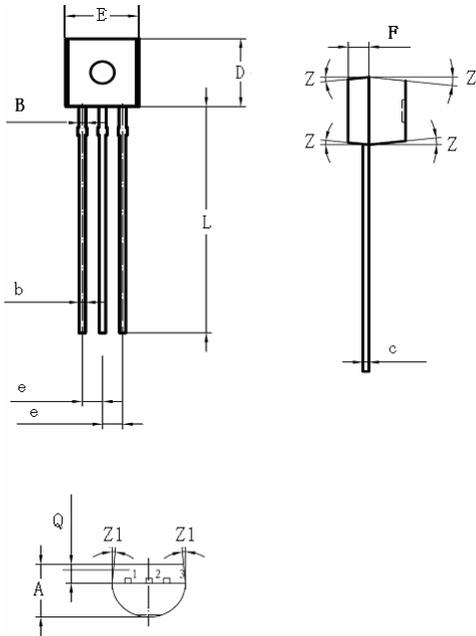
SOA

 P_C - T_C 

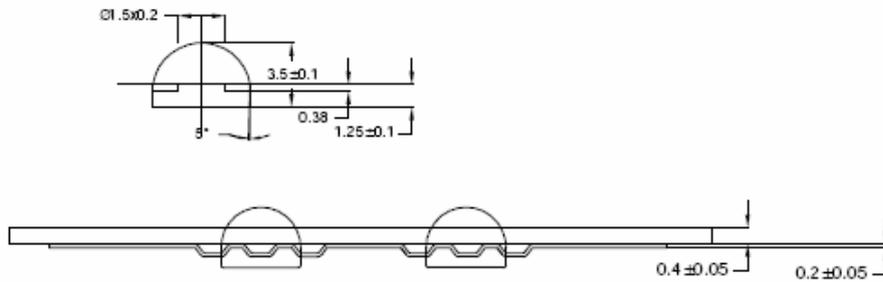
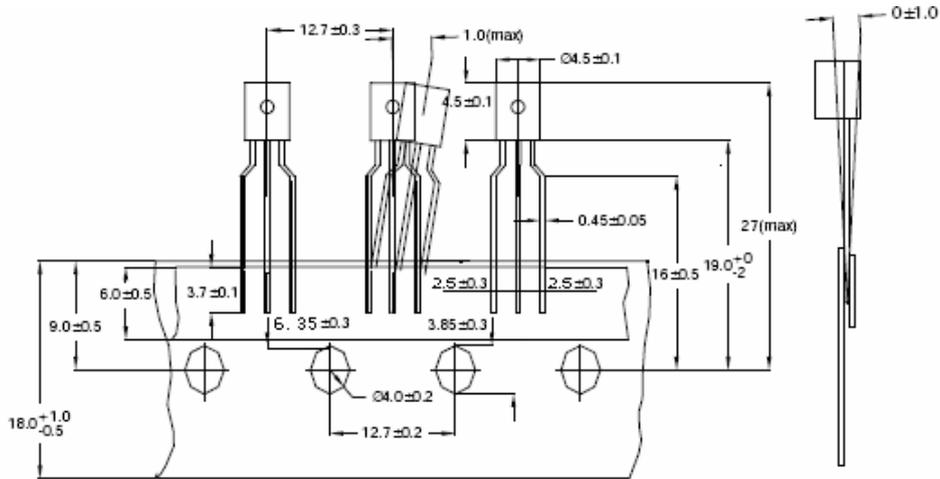


外形尺寸 PACKAGE MECHANICAL DATA
TO-92

单位 Unit : mm



A	3.30-3.90
B	0.35-0.55
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
F	1.00-1.60
L	12.50-15.50
Q	1.00-1.60
Z	2°
Z1	5°



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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.
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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
2009-5-22	200902B	200905C	版式
2009-10-29	200905C	200910D	电话号码、订货代码

