



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

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

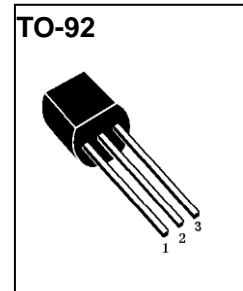
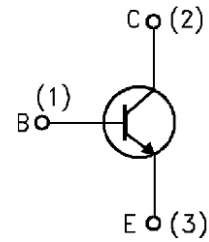
产品特性

- 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	封 装 Package
有卤-袋装	无卤-袋装	有卤-编带	无卤-编带		
Halogen-Bag	Halogen-Free-Bag	Halogen-Reel	Halogen-Free-Reel	13001S	TO-92
3DD13001S-T-C	3DD13001S-T-CR	3DD13001S-T-A	3DD13001S-T-AR		



**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}	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 _E =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

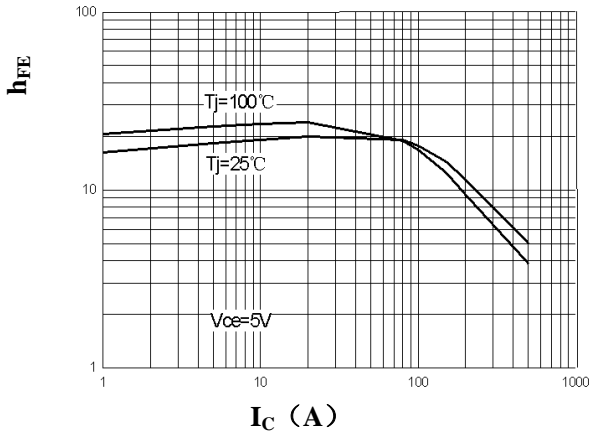
项 目 Parameter	符 号 Symbol	最小值 Value(min)	最大值 Value(max)	单 位 Unit
结到环境的热阻 TO-92 Thermal Resistance Junction Ambient TO-92	R _{th(j-a)}	-	125	℃/W



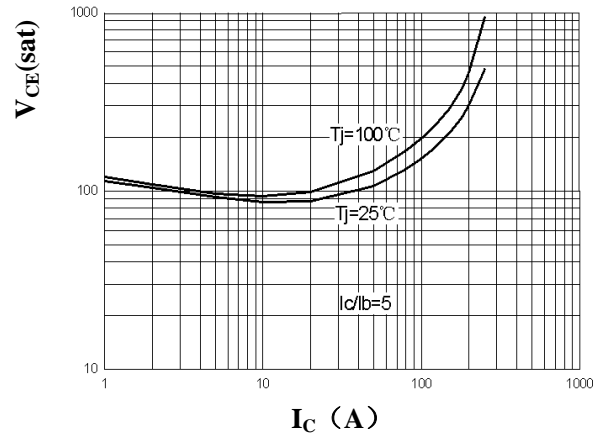


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

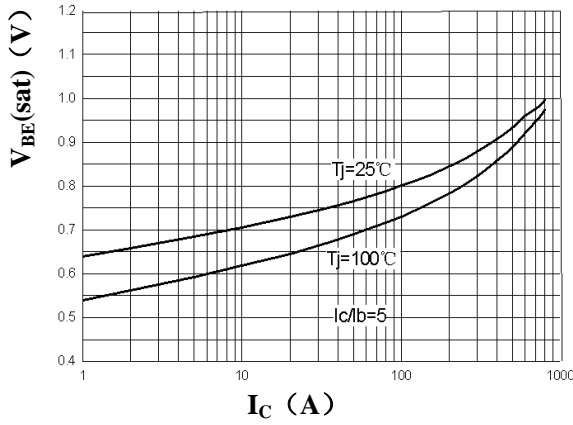
hFE - I_C



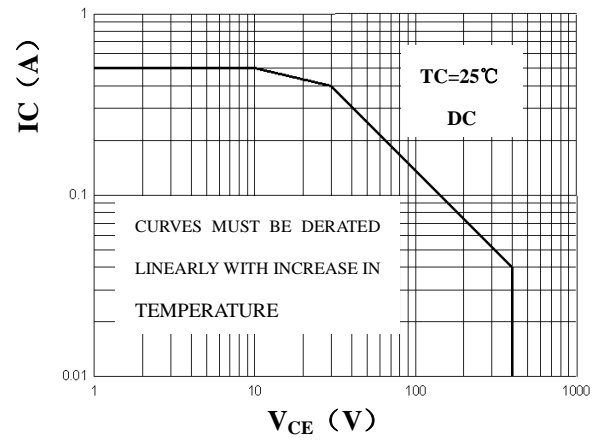
V_{CE(sat)} - I_C



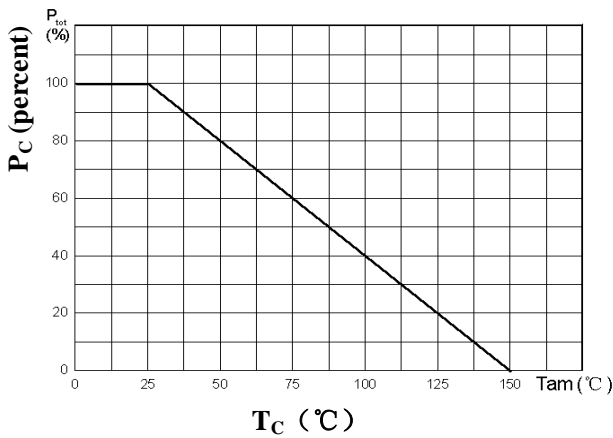
V_{BE (sat)} - I_C



SOA



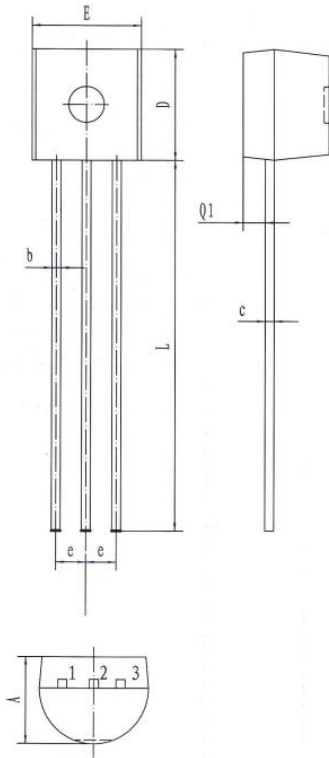
P_C-T_C



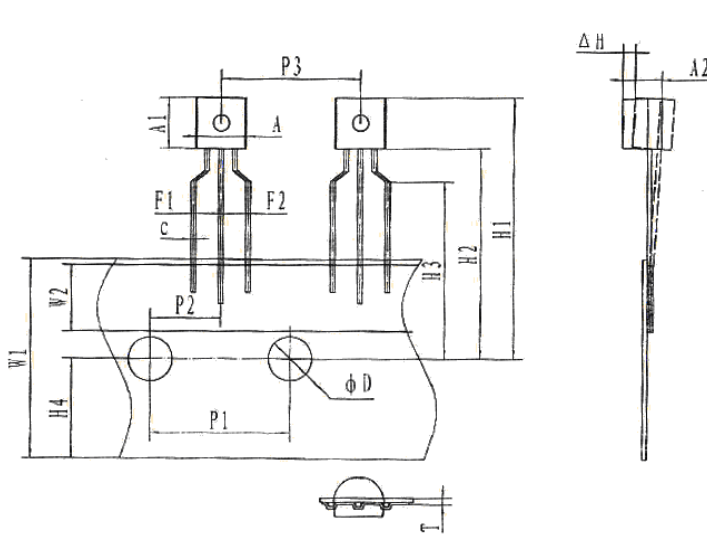


外形尺寸 PACKAGE MECHANICAL DATA
TO-92

单位 Unit : mm



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



**注意事项**

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- 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

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NOTE

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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

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