



3DD2101

主要参数 MAIN CHARACTERISTICS

BV_{CBO}	900	V
I_C	5	A
$V_{CE(sat)}$	0.5	V(max)
t_f	0.5	$\mu s(max)$

用途

- 彩色电视机开关电源电路

APPLICATIONS

- Switching power supply for color TV.

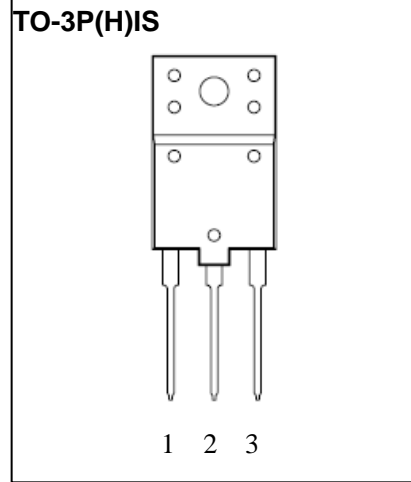
产品特性

- 3DD2101 是 NPN 双极型高压大功率晶体管，制造中采用的主要工艺技术有：高压台面工艺技术、三重扩散技术等，采用塑料全包封结构。环保 (RoHS) 产品。

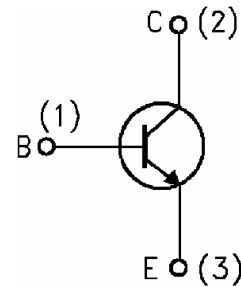
FEATURES

- 3DD2101 is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage mesa type process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package



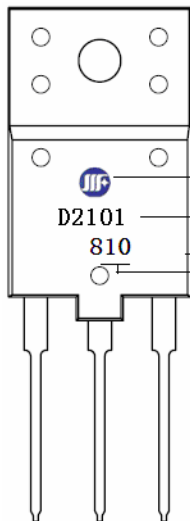
等效电路 EQUIVALENT CIRCUIT



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	器件重量 Device Weight
3DD2101-O-A-N-D	D2101	否 NO	TO-3P(H)IS	泡沫 Foam	5.50 g(typ)

印记说明 MARKING



→ 商标 Trademark

→ 型号 Part No.

→ 年月 Year month

举例 For example

“ 8 ” - 2008 , “ 10 ” 10 月 october



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—基极直流电压 Collector-Base Voltage	BV_{CBO}	900	V
集电极—发射极直流电压 Collector-Emitter Voltage	BV_{CEO}	600	V
发射极—基极直流电压 Emitter-Base Voltage	BV_{EBO}	7	V
最大集电极电流 Collector Current	直流 DC	I_C	A
	脉冲 Pulse	I_{CP}	
最大基极直流电流 Base Current	I_B	2.5	A
最大集电极耗散功率 Collector Power Dissipation	P_C	50	W
最高结温 Max. Junction Temperature	T_j	150	
储存温度 Storage Temperature Range	T_{STG}	-55~+150	

电特性 ELECTRICAL CHARACTERISTICS ($T_c=25$)

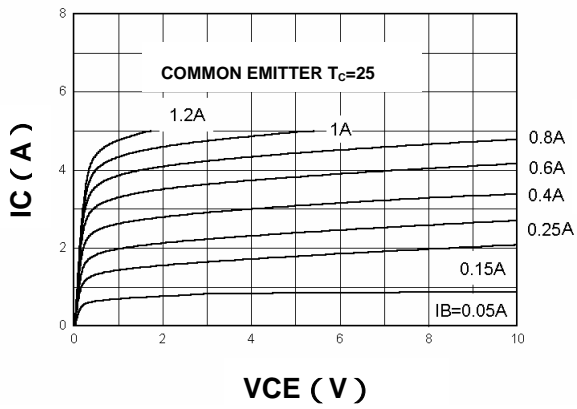
项 目 Parameter	测试条件 Tests conditions	最小值 Min	最大值 Max	单 位 Unit
$V(BR)_{CEO}$	$I_C=10mA, I_B=0$	600		V
$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	900		V
$V(BR)_{EBO}$	$I_E=1mA, I_C=0$	7		V
I_{CBO}	$V_{CB}=800V, I_E=0$		100	μA
I_{EBO}	$V_{EB}=7V, I_C=0$		100	μA
H_{FE}	$V_{CE}=4V, I_C=1.8A$	10	25	
$V_{CE(sat)}$	$I_C=1.8A, I_B=0.36A$		0.5	V
$V_{BE(sat)}$	$I_C=1.8A, I_B=0.36A$		1.2	V
tf	$I_C=1.8A, 2I_{B1}=-I_{B2}=0.9A$		0.5	μs
ts	$f_H=15.75kHz$		4	μs
ft	$V_{CE}=12V, I_C=0.35A$	4		MHz



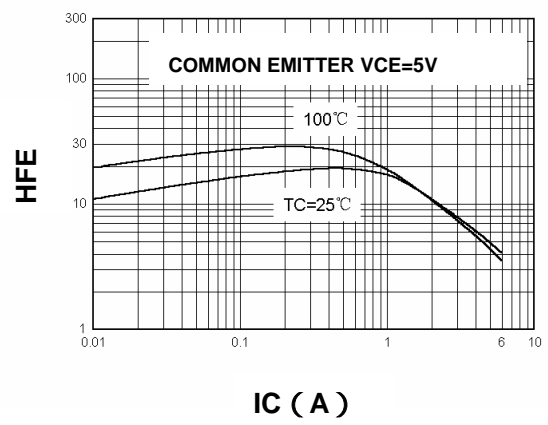


特征曲线 ELECTRICAL CHARACTERISTICS CURVES

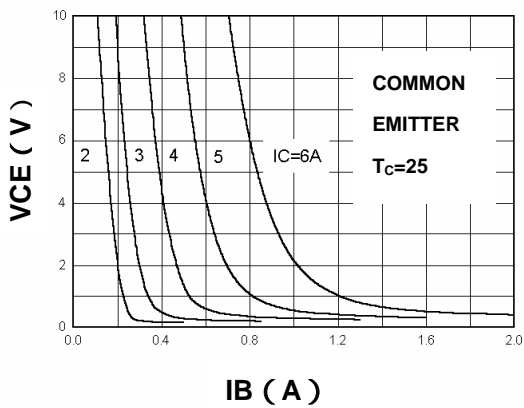
IC - VCE



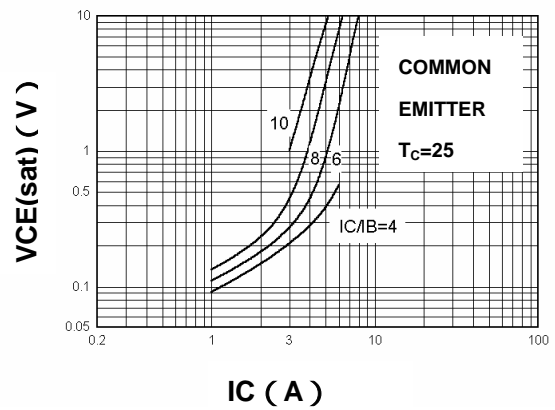
HFE - IC



VCE - IB

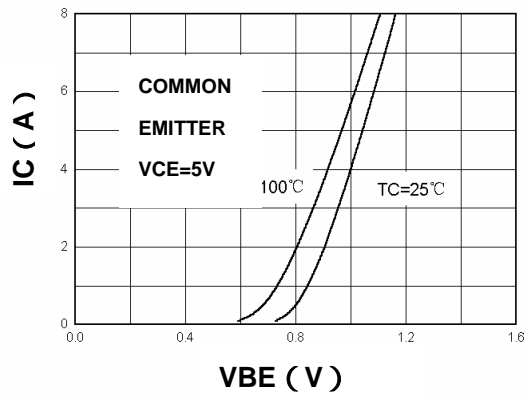


VCE (sat) - IC

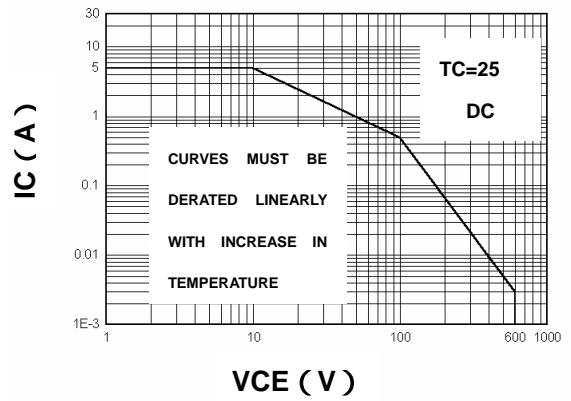




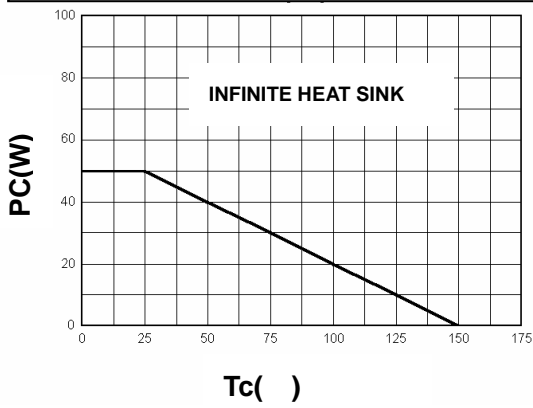
IC - VBE



SOA



PC-TC

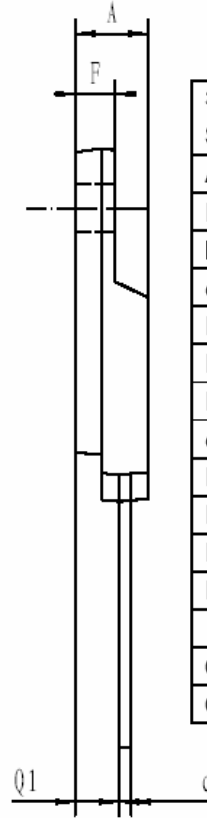
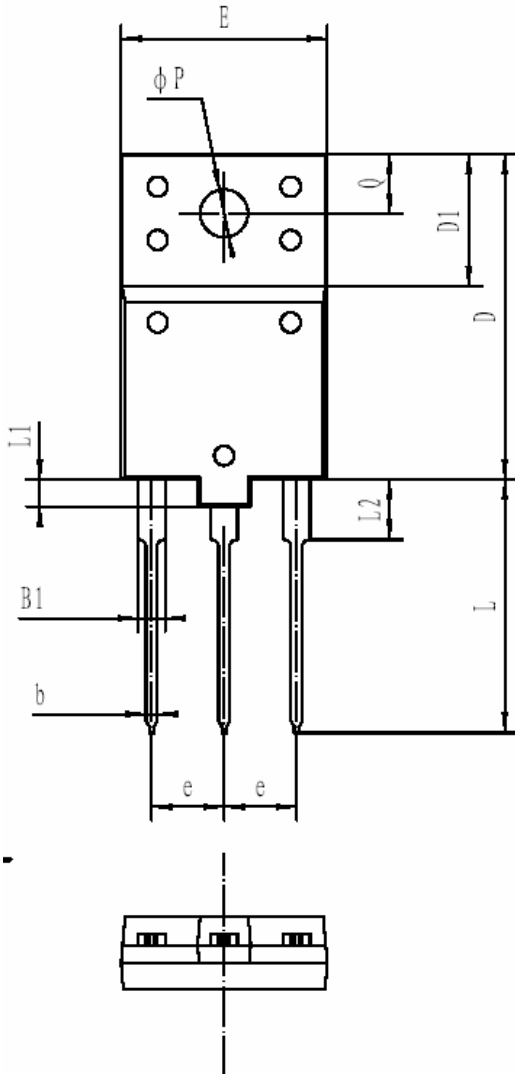




3DD2101

外形尺寸 PACKAGE MECHANICAL DATA
TO-3P(H)IS

单位 Unit : mm



符号 Symbol	Min	Max
A	5.2	5.8
B1	1.8	2.2
b	0.75	1.05
c	0.8	1.1
D	24.0	25.0
D1	9.8	10.2
E	15.0	16.0
e	5.45 (typ)	
F	2.7	3.3
L	18.5	19.5
L1	1.8	2.2
L2	4.3	4.7
ϕP	3.4	3.8
Q	4.3	4.7
Q1	3.1	3.5



**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

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 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
2009-5-20	901C	905D	增加订货信息，印记说明等 Add order message, marking, etc.
2009-11-3	905D	911E	修改电话号码

