



3DD5024A

主要参数 MAIN CHARACTERISTICS

BV_{CBO}	1500 V
I_C	8 A
$V_{CE(sat)}$	3 V(max)
t_f	0.6 μs (max)

用途

- 彩色电视机行输出电路

APPLICATIONS

- Horizontal deflection output for color TV.

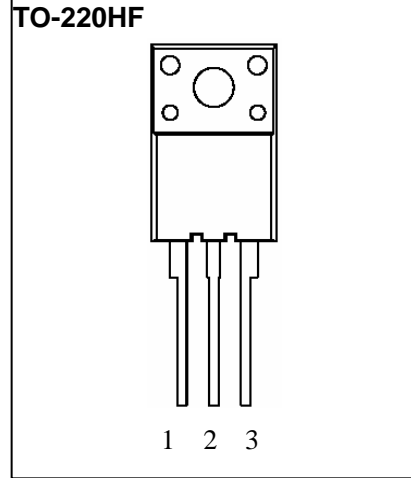
产品特性

- 3DD5024A 是 NPN 双极型高反压大功率晶体管，制造中采用的主要工艺技术有：高压平面工艺技术、三重扩散技术等，采用塑料全包封结构。环保（RoHS）产品。

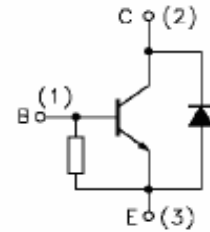
FEATURES

- 3DD5024A is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage plane type process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package



等效电路 EQUIVALENT CIRCUIT

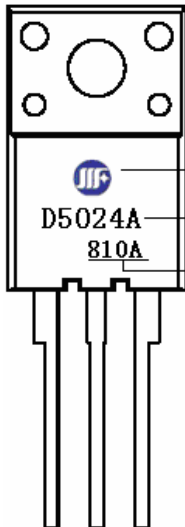


$R_{BE}=50$ (Typ.)

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
3DD5024A-O-HF-N-B	D5024A	否 NO	TO-220HF	条管 Tube

印记说明 MARKING



商标 Trademark

型号 Part No.

年月周 Year month week

举例 For example

“8” - 2008, “10” 10月 october “A” 第1周 first week



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}	1500	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}	6	V
最大集电极电流 Collector Current	直流 DC	8	A
	脉冲 Pulse	16	
最大基极直流电流 Base Current	I_B	4	A
最大集电极耗散功率 Collector Power Dissipation	P_C	35	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 ($T_c=25$)

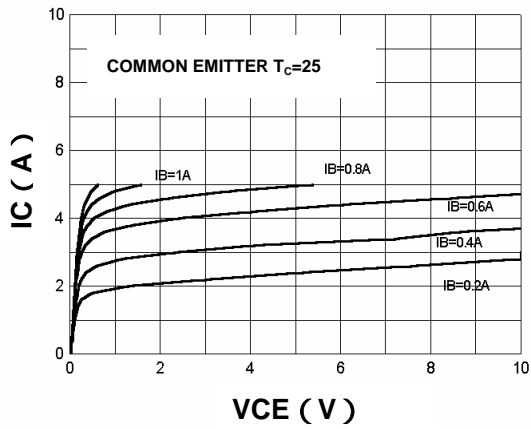
项 目 Parameter	测试条件 Tests conditions	最小值 Min	最大值 Max	单 位 Unit
$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	1500		V
$V(BR)_{EBO}$	$I_E=400mA, I_C=0$	6		V
I_{CBO}	$V_{CB}=1500V, I_E=0$		1	mA
I_{EBO}	$V_{EB}=4V, I_C=0$	40	150	mA
H_{FE}	$V_{CE} = 5V, I_C = 1A$	8	25	
	$V_{CE} = 5V, I_C = 4A$	5		
$V_{CE(sat)}$	$I_C=4.5A, I_B=0.9A$		3	V
$V_{BE(sat)}$	$I_C=4.5A, I_B=0.9A$		1.3	V
$-V_F$	$I_F=4A$		2	V
tf	$I_C=4.5A, 2I_{B1}=-I_{B2}=1.8A$		0.6	μs
ts	$f_H=15.75kHz$		6	μs
ft	$V_{CE}=10V, I_C=0.1A$	1.7		MHz



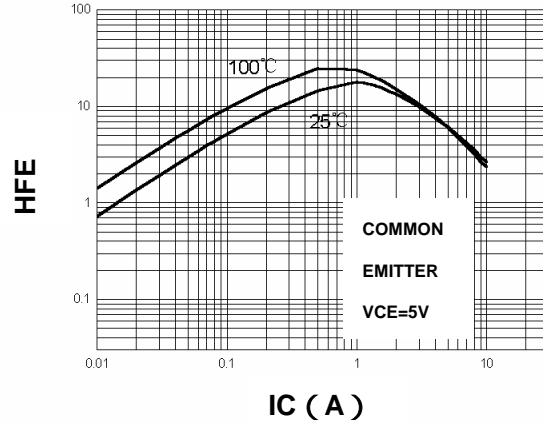


特征曲线 ELECTRICAL CHARACTERISTICS CURVES

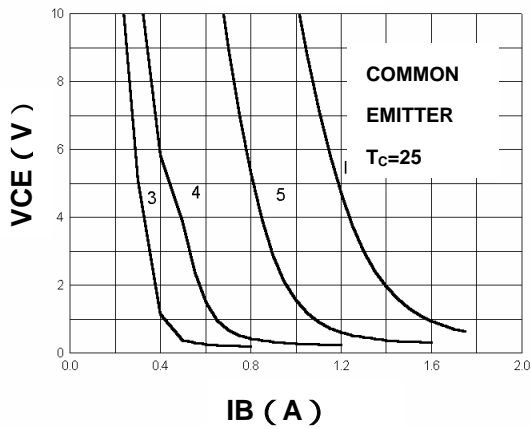
IC - VCE



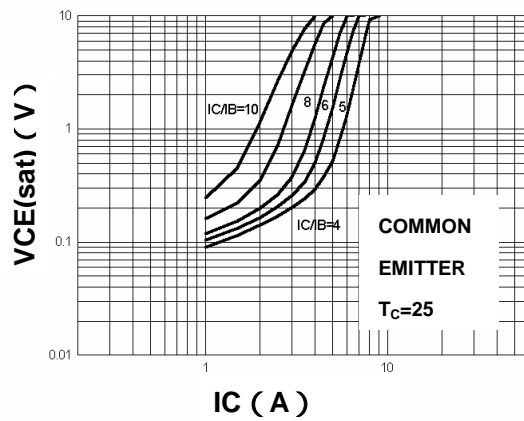
HFE - IC



VCE - IB

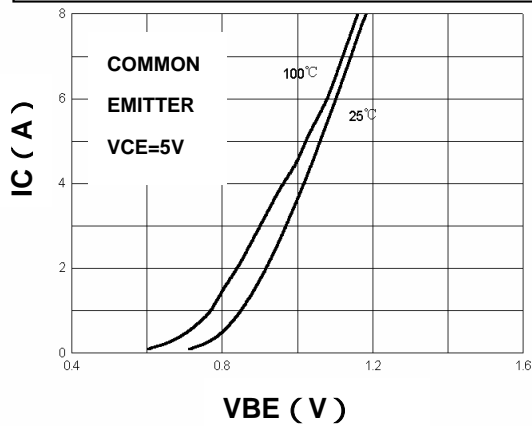


VCE (sat) - IC

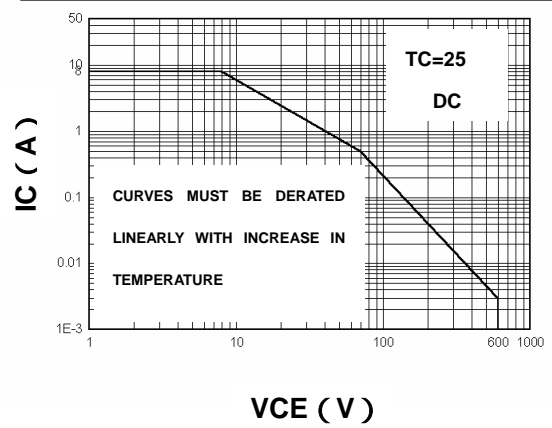




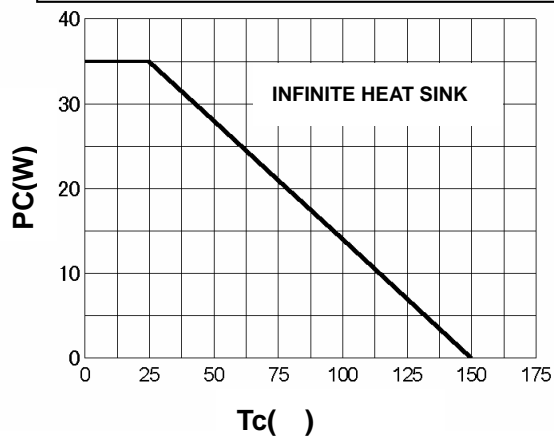
IC - VBE

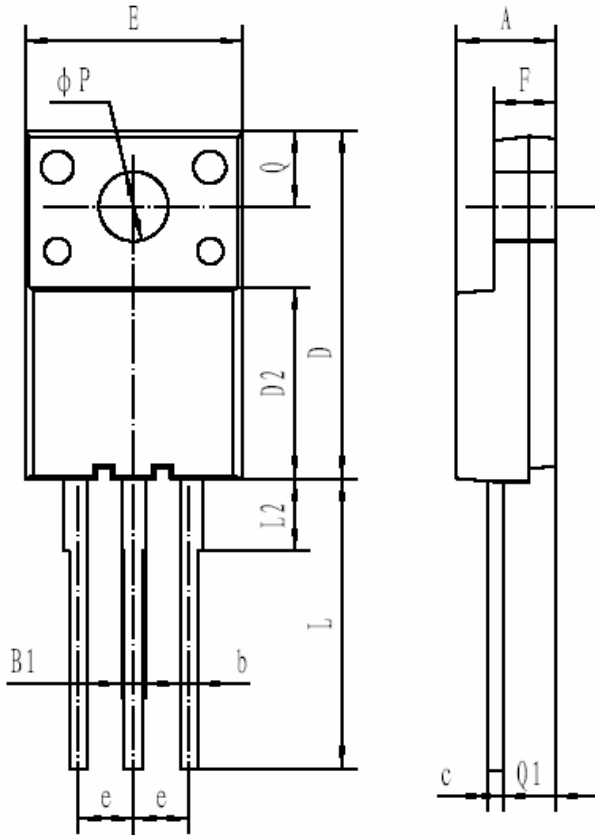


SOA

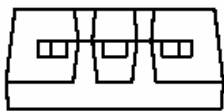


PC-TC





符号 Symbol	Min	Max
A	4.0	5.0
B1	0.87	1.27
b	0.72	0.92
c	0.5	0.70
D	15.0	16.5
D2	7.8	9.4
E	9.62	10.62
e	2.54(typ)	
F	2.3	3.3
L	12.0	14.0
L2	3.1	3.5
ϕP	3.0	3.4
Q	3.15	3.55
Q1	2.2	2.5



**注意事项**

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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

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.

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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	810A	905B	增加订货信息，印记说明等 Add order message, marking, etc.
2009-11-3	905B	911C	修改电话号码

