



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.

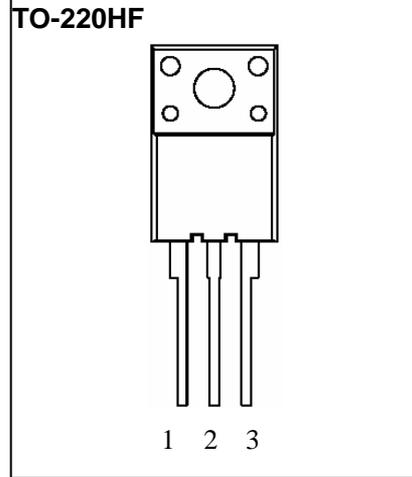
产品特性

- 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，采用塑料全封装结构。环保（RoHS）产品。

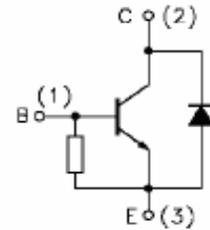
FEATURES

- 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

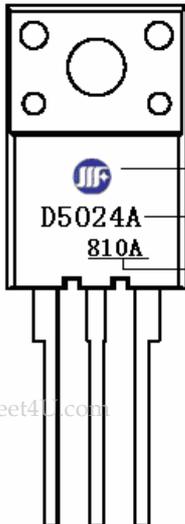


$R_{BE}=50$ (Typ.)

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 ($T_c=25$)

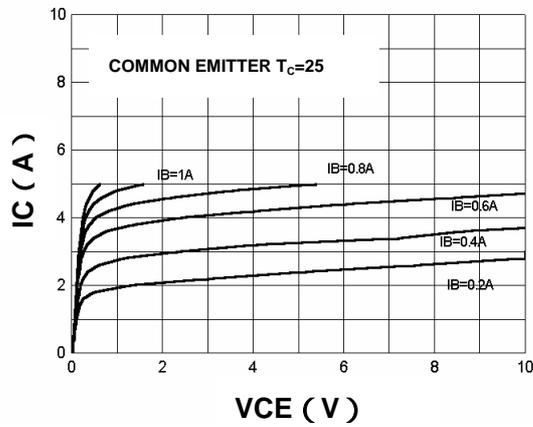
项 目 Parameter	测试条件 Tests conditions	最小值 Min	最大值 Max	单 位 Unit
$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	1500		V
$V(BR)_{EBO}$	$I_E=400mA, I_C=0$	6		V
I_{CBO}	$V_{CB}=1500V, I_E=0$		1	mA
I_{EBO}	$V_{EB}=4V, I_C=0$	40	150	mA
H_{FE}	$V_{CE} = 5 V, I_C = 1 A$	8	25	
	$V_{CE} = 5 V, I_C = 4 A$	5		
$V_{CE(sat)}$	$I_C=4.5A, I_B=0.9A$		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



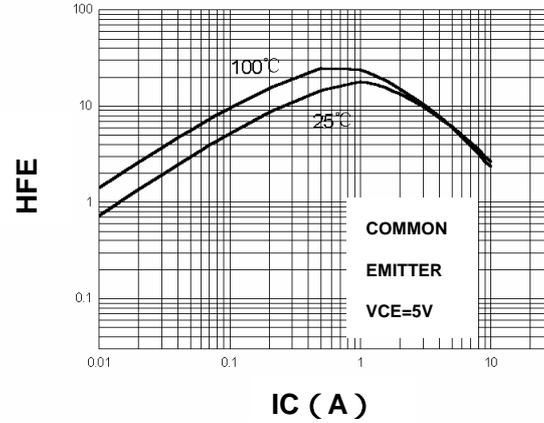


特征曲线 ELECTRICAL CHARACTERISTICS CURVES

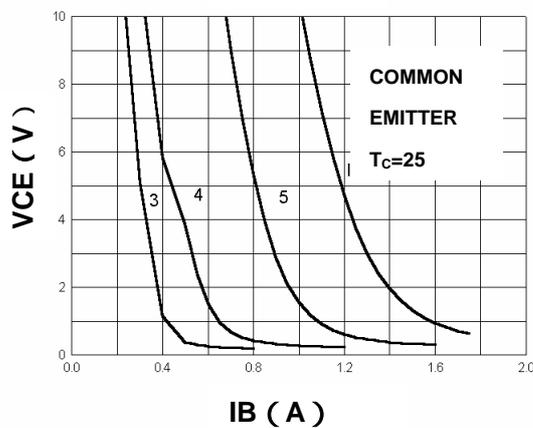
IC - VCE



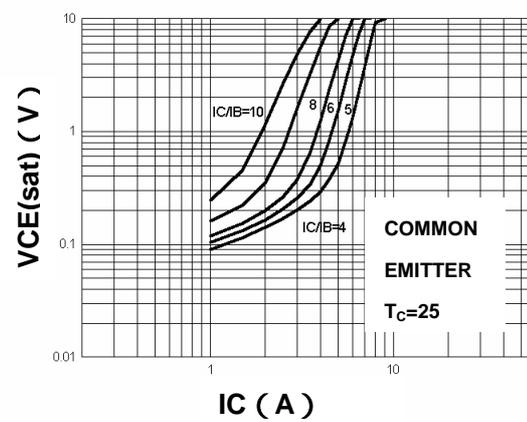
HFE - IC



VCE - IB

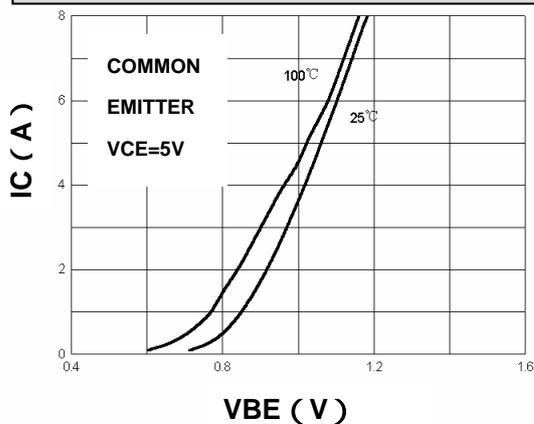


VCE (sat) - IC

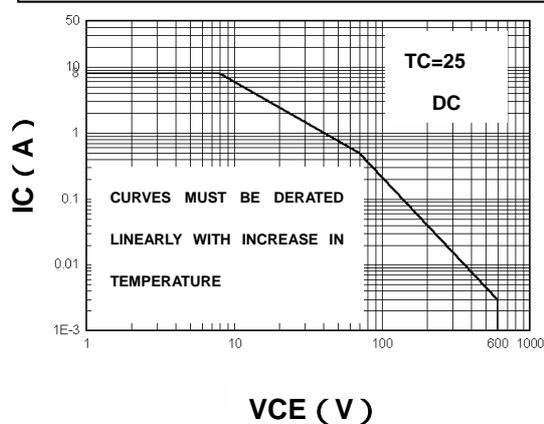




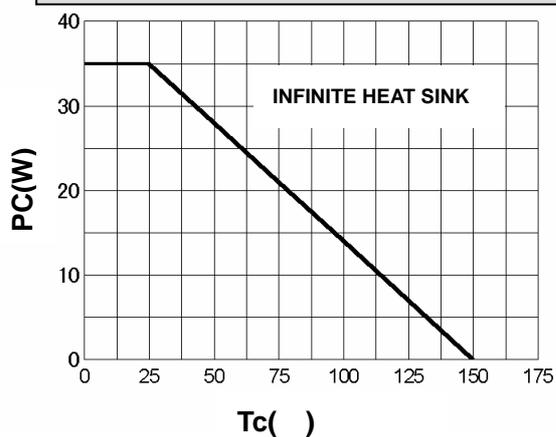
IC - VBE

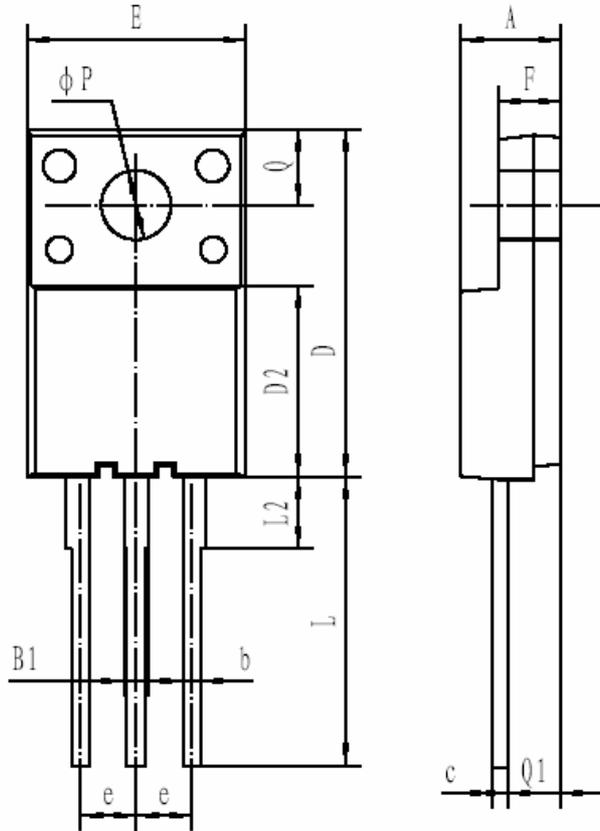


SOA

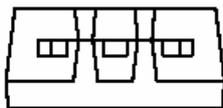


PC-TC





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



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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.
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

