



3DD5023

主要参数 MAIN CHARACTERISTICS

BV_{CBO}	1500 V
I_C	6 A
$V_{CE(sat)}$	5 V(max)
t_f	1 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

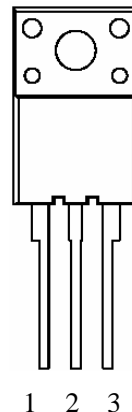
- 3DD5023 是 NPN 双极型高反压大功率晶体管, 制造中采用的主要工艺技术有: 高压台面工艺技术、三重扩散技术等, 采用塑料全包封结构。环保 (RoHS) 产品。

FEATURES

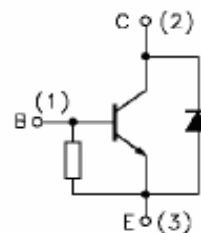
- 3DD5023 is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage mesa type process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package

TO-220HF



等效电路 EQUIVALENT CIRCUIT

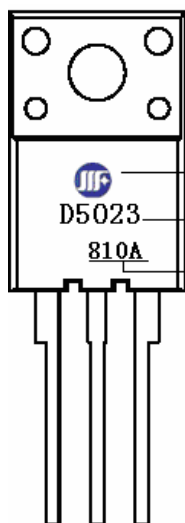


$R_{BE}=50$ (Typ.)

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
3DD5023-O-HF-N-B	D5023	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	I_C	A
	脉冲 Pulse	I_{CP}	
最大基极直流电流 Base Current	I_B	3	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 ($T_c=25$)

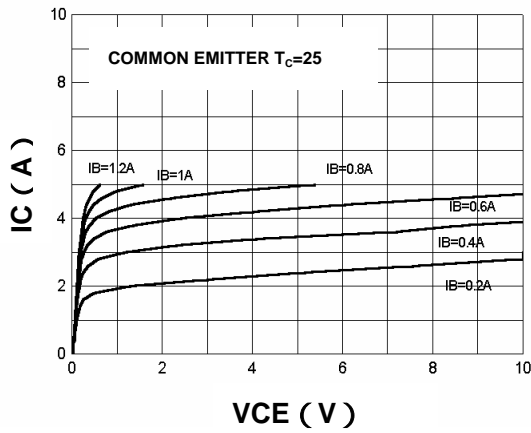
项 目 Parameter	测试条件 Tests conditions	最小值 Min	最大值 Max	单 位 Unit
$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	1500		V
$V(BR)_{EBO}$	$I_E=400mA, I_C=0$	6		V
I_{CBO}	$V_{CB}=1500V, I_E=0$		1	mA
I_{EBO}	$V_{EB}=4V, I_C=0$	40	150	mA
H_{FE}	$V_{CE} = 5V, I_C = 1A$	10	30	
	$V_{CE} = 5V, I_C = 4A$	5		
$V_{CE(sat)}$	$I_C=3A, I_B=0.6A$		5	V
$V_{BE(sat)}$	$I_C=3A, I_B=0.6A$		1.5	V
$-V_F$	$I_F=5A$		2	V
tf	$I_C=4A, 2I_{B1}=-I_{B2}=1.6A$		1	μs
ts	$f_H=15.75kHz$		9	μs
ft	$V_{CE}=10V, I_C=0.1A$	1		MHz



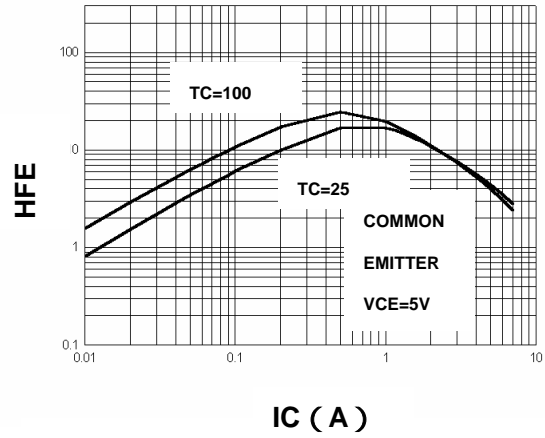


特征曲线 ELECTRICAL CHARACTERISTICS CURVES

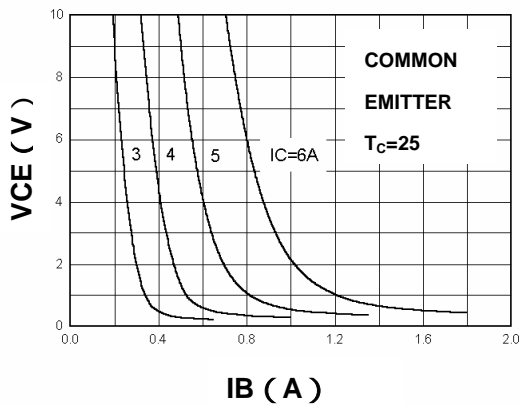
IC - VCE



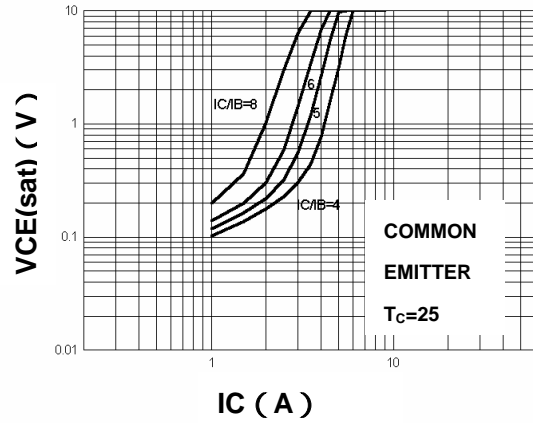
HFE - IC



VCE - IB

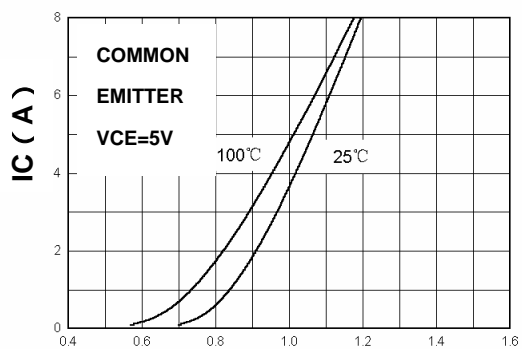


VCE (sat) - IC



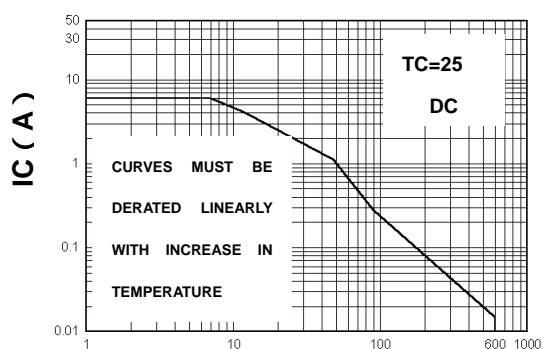


IC - VBE



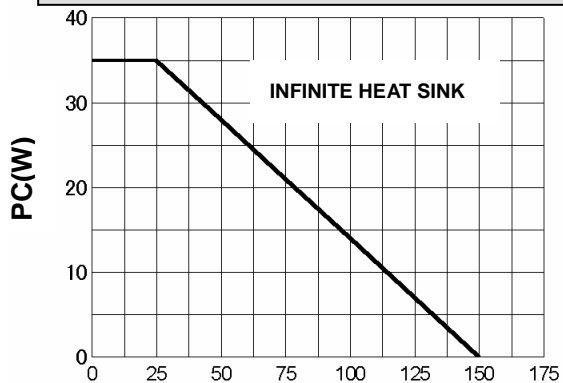
VBE (V)

SOA



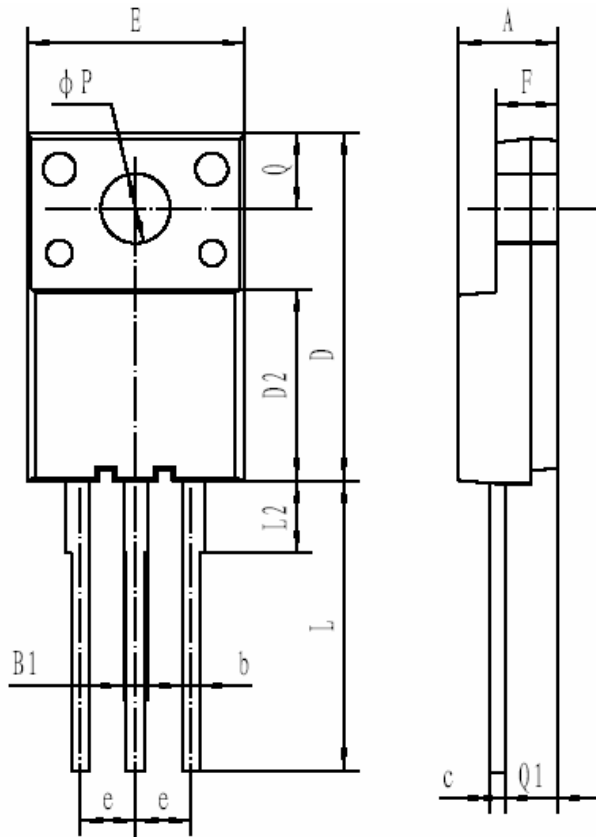
VCE (V)

PC-TC

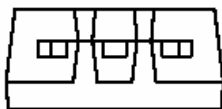


Tc ()





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.
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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.

联系方式**吉林华微电子股份有限公司**

公司地址：吉林省吉林市深圳街 99 号

邮编：132013

总机：86-432-64678411

传真：86-432-64665812

网址：www.hwdz.com.cn

市场营销部

地址：吉林省吉林市深圳街 99 号

邮编：132013

电话：86-432-64675588

64675688

64678411-3098/3099

传真：86-432-64671533

CONTACT**JILIN SINO-MICROELECTRONICS CO., LTD.**

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel : 86-432-64678411

Fax : 86-432-64665812

Web Site : www.hwdz.com.cn

MARKET DEPARTMENT

ADD: No.99 Shenzhen Street, Jilin City, Jilin Province, China.

Post Code: 132013

Tel: 86-432-64675588

64675688

64678411-3098/3099

Fax: 86-432-64671533

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

