



3DD5023P

主要参数 MAIN CHARACTERISTICS

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

用途

- 彩色电视机行输出电路

APPLICATIONS

- Horizontal deflection output for color TV.

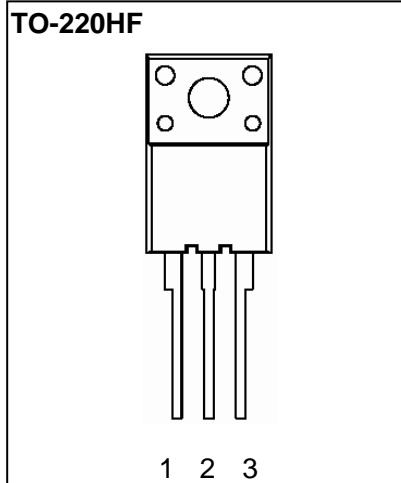
产品特性

- 3DD5023P 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。

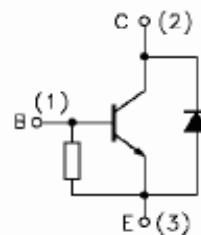
FEATURES

- 3DD5023P is high breakdown voltage of NPN bipolar transistor. The main process of manufacture: high voltage planar process, triple diffused process etc., adoption of fully plastic package. RoHS product.

封装 Package



等效电路 EQUIVALENT CIRCUIT



$R_{BE}=50\Omega(\text{Typ.})$

订货信息 ORDER MESSAGE

订货型号 Order codes		印 记 Marking	封 装 Package
有卤条管	有卤条管		
Halogen-Tube	Halogen-Free-Tube	5023P	TO-220HF
3DD5023P-FA-B	3DD5023P-FA-B		



绝对最大额定值 **ABSOLUTE RATINGS (Tc=25°C)**

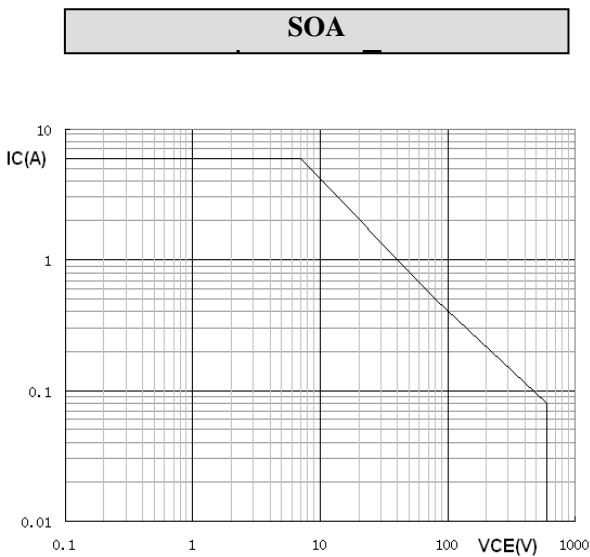
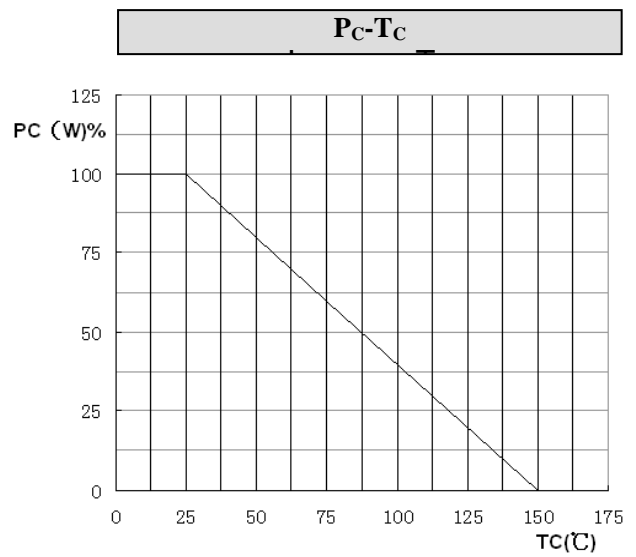
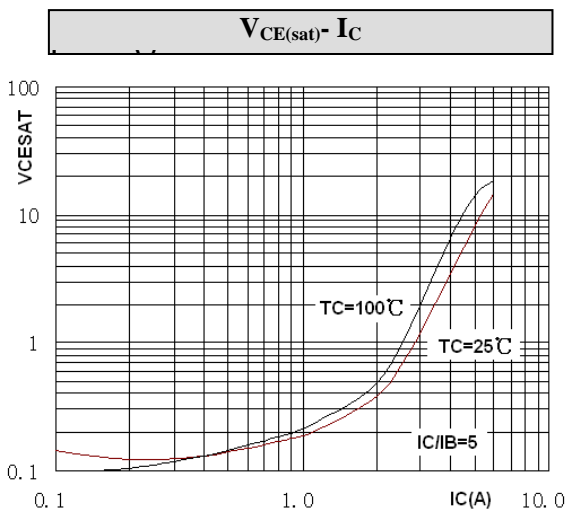
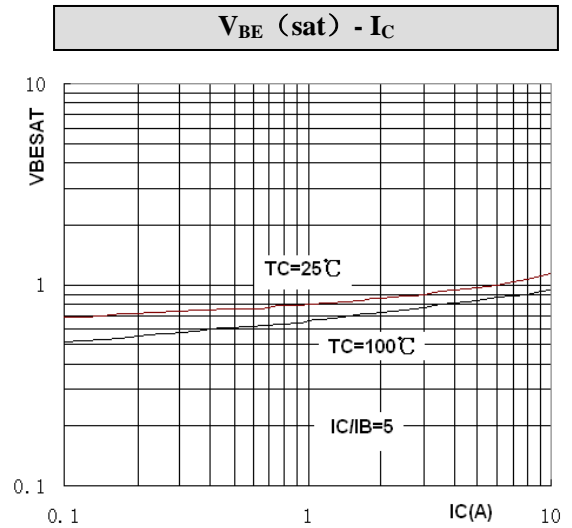
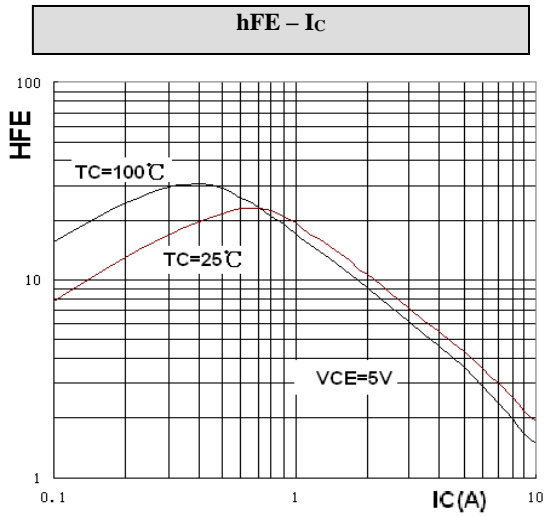
项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压 Collector-Base Voltage	BV_{CBO}	1500	V
集电极—发射极直流电压 Collector-Emitter Voltage	BV_{CEO}	600	V
发射极—基极直流电压 Emitter-Base Voltage	BV_{EBO}	6	V
最大集电极电流 Collector Current	直流 DC	6	A
	脉冲 Pulse	12	
最大基极直流电流 Base Current	I_B	3	A
最大集电极耗散功率 Collector Power Dissipation	P_C	35	W
最高结温 Max. Junction Temperature	T_j	150	°C
储存温度 Storage Temperature Range	T_{STG}	-55~+150	°C

电特性 **ELECTRICAL CHARACTERISTICS (Tc=25°C)**

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

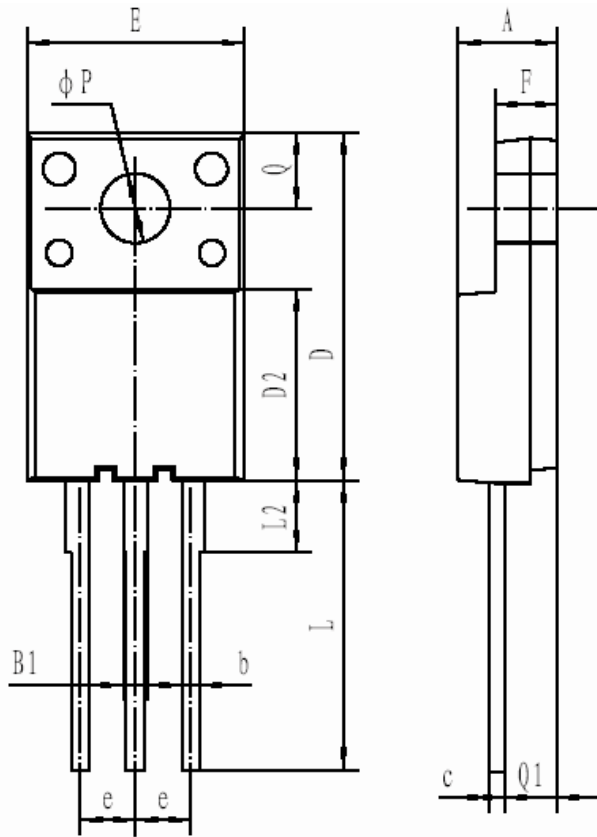


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

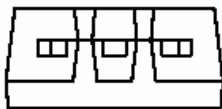


外形尺寸 PACKAGE MECHANICAL DATA
TO-220HF

单位Unit : mm



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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- 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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