



3DD5038P

主要参数 MAIN CHARACTERISTICS

BVCBO	1200	V
IC	10	A
VCE(sat)	0.5	V(max)
Tf	0.3	μs(max)

用途

- 彩色电视机开关电源电路

产品特性

- 3DD5038P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。

APPLICATIONS

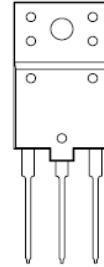
- Switching power supply for color TV..

FEATURES

- 3DD5038P 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.

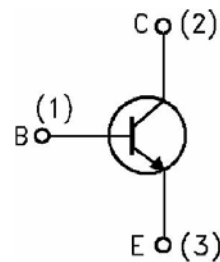
封装 Package

TO-3P(H)IS



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
3DD5038P-O-A-N-D	D5038	否 NO	TO-3P(H)IS	泡沫 Foam





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}	1200	V
集电极—发射极直流电压 Collector- Emitter Voltage	BV_{CEO}	700	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	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	°C
储存温度 Storage Temperature Range	T_{STG}	-55~+150	°C

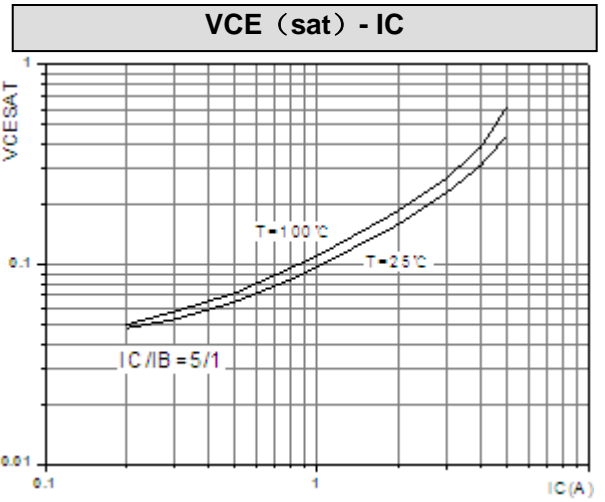
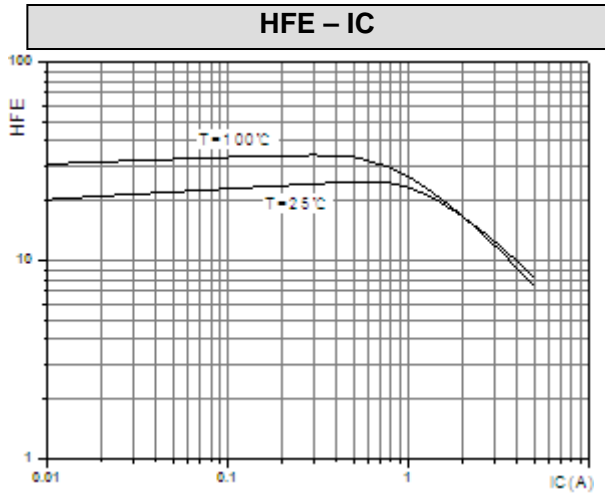
电特性 ELECTRICAL CHARACTERISTICS (Tc=25°C)

项目 Parameter	测试条件 Tests conditions	最小值 Min	最大值 Max	单位 Unit
$V(BR)_{CEO}$	$I_C=10mA, I_B=0$	700		V
$V(BR)_{CBO}$	$I_C=1mA, I_E=0$	1200		V
$V(BR)_{EBO}$	$I_E=1mA, I_C=0$	6		V
I_{CBO}	$V_{CB}=1200V, I_E=0$		1	mA
I_{EBO}	$V_{EB}=6V, I_C=0$		10	μA
H_{FE}	$V_{CE} = 5V, I_C = 1A$	15	35	
	$V_{CE} = 5V, I_C = 5A$	6		
$V_{CE(sat)}$	$I_C=3A, I_B=0.6A$		0.5	V
$V_{BE(sat)}$	$I_C=3A, I_B=0.6A$		1.3	V
t_f	$I_C=5A, 2I_{B1}=-I_{B2}=2A$ $f_H=15.75kHz$		0.3	μs
t_s			4	μs
f_t	$V_{CE}=10V, I_C=0.1A$	1.7		MHz



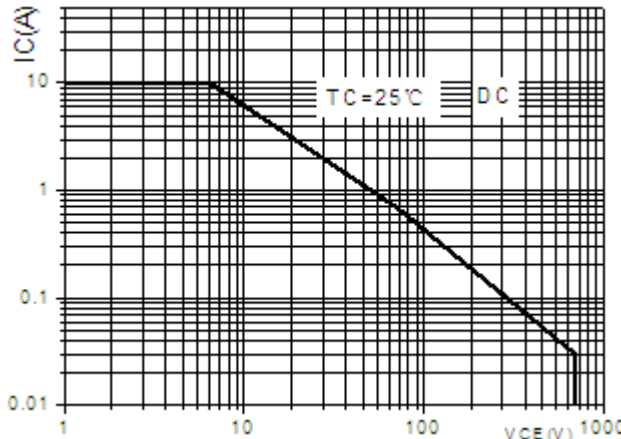
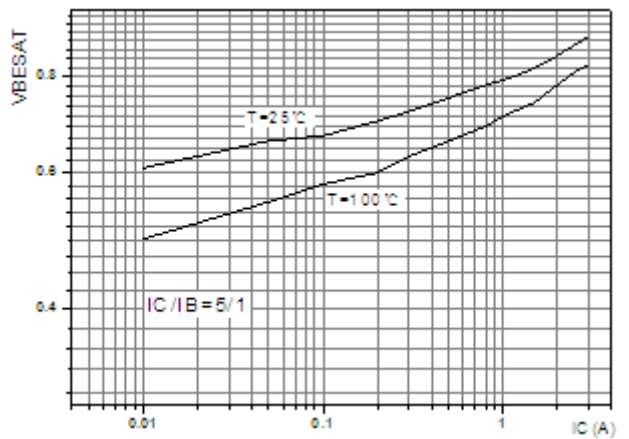


特征曲线 ELECTRICAL CHARACTERISTICS (curves)

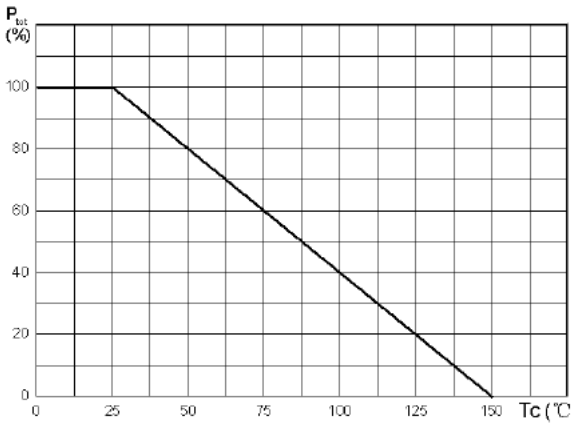


VBE (sat) - IC

SOA



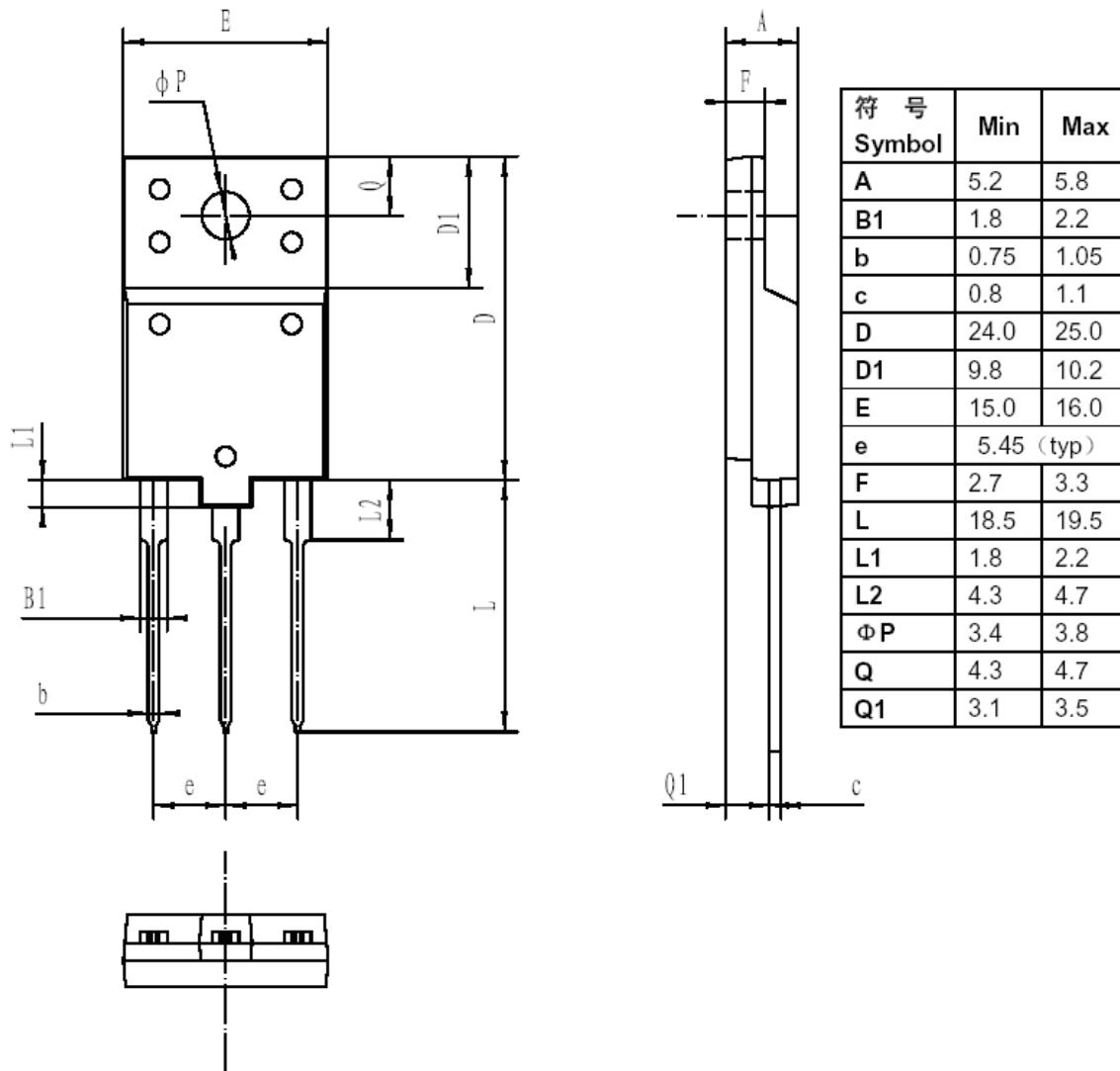
PC-TC





TO-3P(H)IS

单位Unit : mm



**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

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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

