

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	2SB778 / 2SD998
▶ Overseas	Part Number	2SB778 / 2SD998
▶ Equivalent	Part Number	2SB778 / 2SD998

EV is the abbreviation of name EVVO

硅-双极型外延平面 NPN-PNP 配对功率放大晶体管

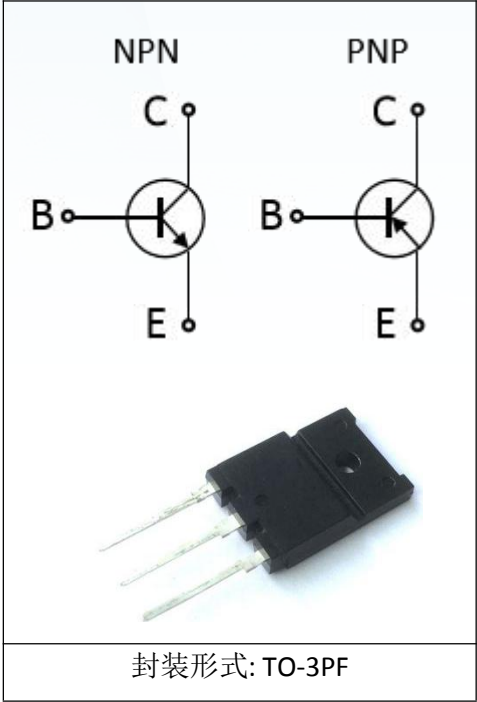
2SB778(PNP)
2SD998(NPN)

特点与应用：

- 大的输出电流： $I_c=10A$
- 高的击穿电压： $V_{CEO} \geq 120V$
- 宽的工作区域： $2.5A/80V@1\text{ Second}$
- 优的频率特性： $f_T > 10MHz$
- 适用于 80W 以上高保真音频放大器末级输出

注意 1：能够持续不断的负荷运行：比如应用于高温、高电压、大电流，并适用于温度的大变化等。

注意 2：在以下的操作环境下功率晶体管的可靠性可能会降低：比如运用在最大的电流和最高的温度和电压等。



封装形式: TO-3PF

绝对最大额定参数值($T_c=25^{\circ}C$):

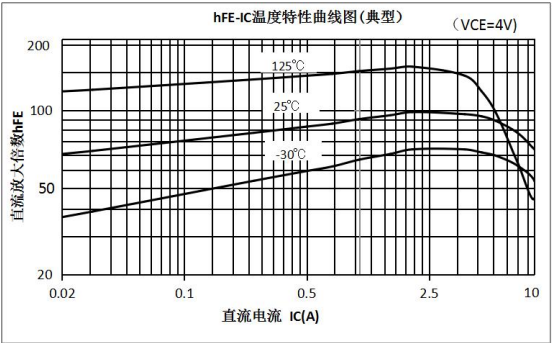
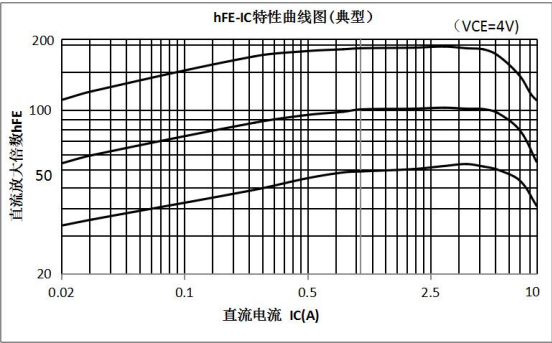
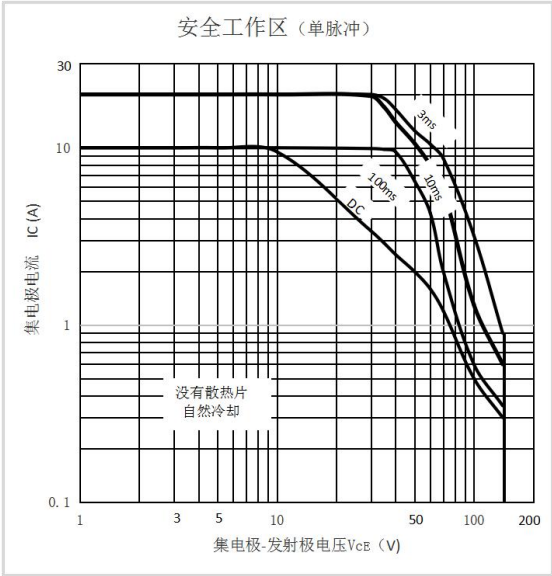
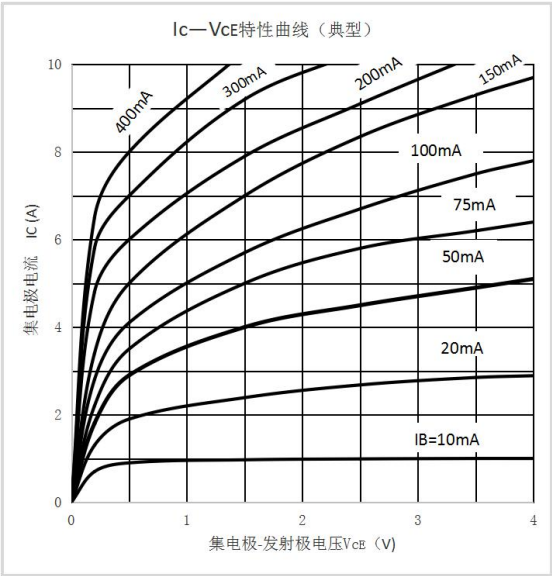
参数名称	符号	额定值	单位
集电极-基极电压	V_{CBO}	120	V
集电极-发射极电压	V_{CEO}	120	V
发射极-基极电压	V_{EBO}	5	V
集电极电流	I_c	10	A
基极电流	I_B	1.0	A
集电极功率损耗($T_c=25^{\circ}C$)	P_c	80	W
接点温度	T_j	150	$^{\circ}C$
存储温度范围	T_{STG}	-55~150	$^{\circ}C$

电参数 (Tc=25℃):

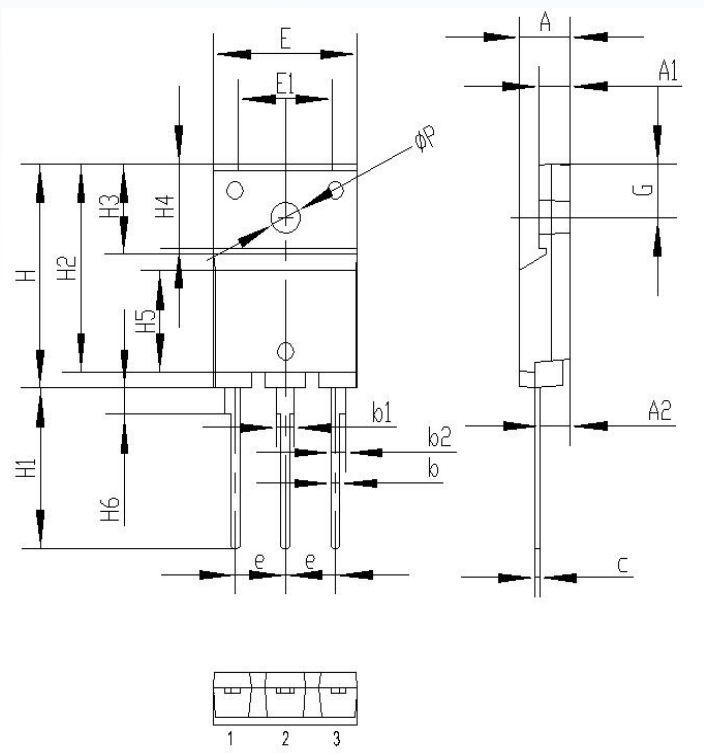
参数名称	参数	测试条件	最小值	典型值	最大值	单位
集电极-基极击穿漏电	I_{CBO}	$V_{CB}=120V; I_E=0$			100	μA
发射极-基极击穿漏电	I_{EBO}	$V_{EB}=5V; I_C=0$			100	μA
集电极-发射极击穿电压	$V_{(BR)CEO}$	$I_C=50mA, I_B=0$	120			V
放大增益	$h_{FE(1)}$	$V_{CE}=5V; I_C=1A$	55		160	
	$h_{FE(2)}$	$V_{CE}=5V; I_C=5A$	35			
集电极-发射极饱和电压	$V_{CE(sat)}$	$I_C=5A; I_B=0.5A$			2.5	V
基极-发射极电压	V_{BE}	$V_{CE}=5V; I_C=5A$			1.5	V
特征频率	f_T	$V_{CE}=5V; I_C=1A$		10		MHz

参数	参数说明	典型值	条件
$R_{\theta JC}$	结到管壳温度	0.35	℃/W

典型特征



封装信息：TO-3PF 封装



Symbol	单位 mm		
	Min	Nom	Max
A	5.30	5.50	5.70
A1	3.30	3.50	3.70
A2	3.20	3.40	3.60
b	0.80	1.0	1.20
b1	1.80	2.00	2.20
b2	1.40	1.60	1.80
c	0.40	0.50	0.60
e	5.25	5.45	5.65
E	15.4	15.6	15.8
E1	10.0	10.2	10.4
H	22.8	23.0	23.2
H1	16.0	16.5	17.0
H2	21.2	21.4	21.6
H3	9.10	9.30	9.50
H4	8.55	8.75	8.95
H5	10.2	10.4	10.6
H6	2.55	2.70	2.85
G	5.3	5.5	5.7

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