

EVVOSEMI[®]

THINK CHANGE DO



ESD



TVS



MOS



LDO



Diode



Sensor



DC-DC

Product Specification

▶ Domestic	Part Number	2SA1837 / 2SC4793
▶ Overseas	Part Number	2SA1837 / 2SC4793
▶ Equivalent	Part Number	2SA1837 / 2SC4793

EV is the abbreviation of name EVVO

2SA1837(PNP)
2SC4793(NPN)

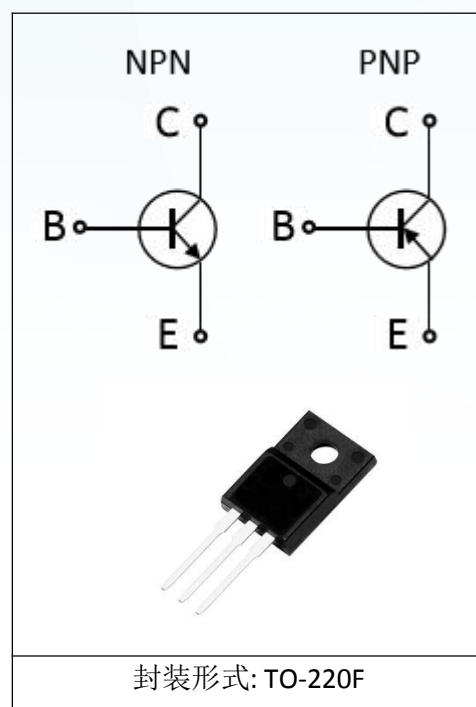
硅-双极型外延平面 NPN-PNP 配对功率放大晶体管

特点与应用:

- 合适的输出电流: $I_c=1A$
- 高的击穿电压: $V_{CEO} \geq 230V$
- 宽的工作区域: $1A/30V@1\text{ Second}$
- 优的频率特性: $f_T > 100MHz$
- 适用于高保真音频功率放大器前级推动

注意 1: 能够持续不断的负荷运行: 比如应用于高温度、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。



绝对最大额定参数值($T_c=25^\circ C$):

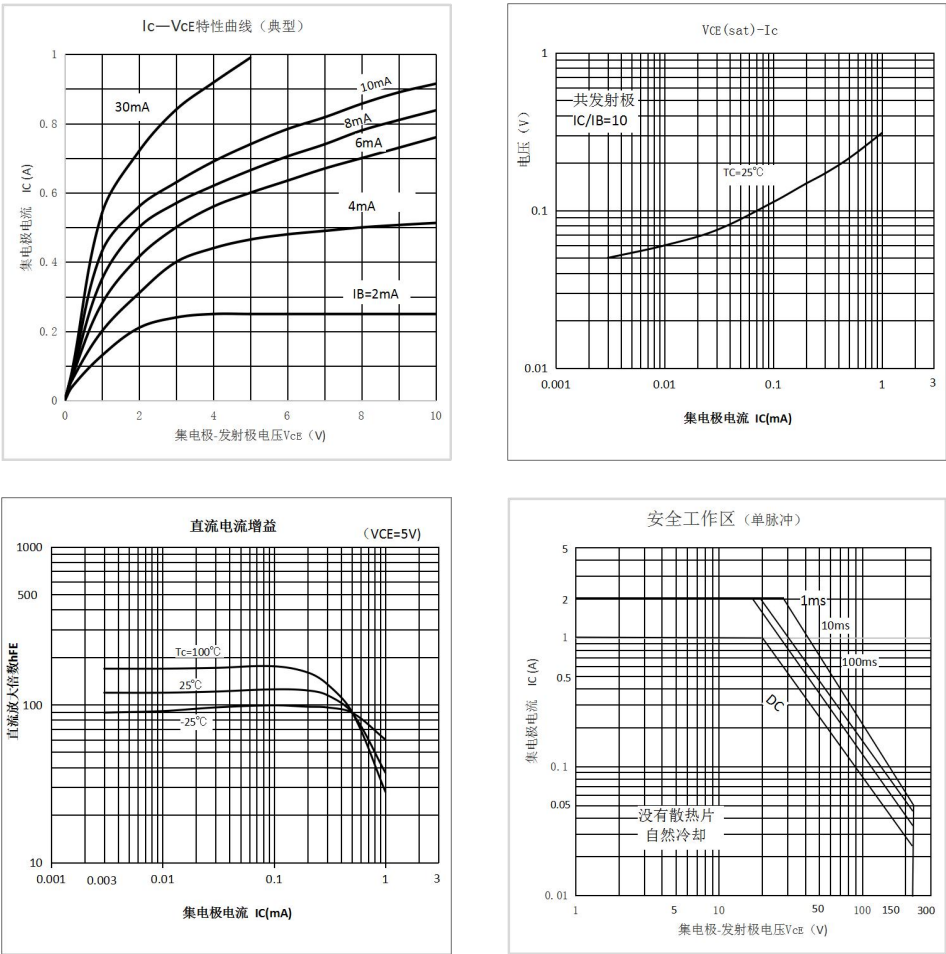
参数名称	符号	额定值	单位
集电极-发射极电压	V_{CBO}	230	V
集电极-基极电压	V_{CEO}	230	V
发射极-基极电压	V_{EBO}	6	V
集电极电流	I_c	1	A
基极电流	I_B	0.1	A
集电极功率损耗($T_c=25^\circ C$)	P_c	20	W
接点温度	T_j	150	$^\circ C$
存储温度范围	T_{STG}	-55~150	$^\circ C$

电参数 (Tc=25℃):

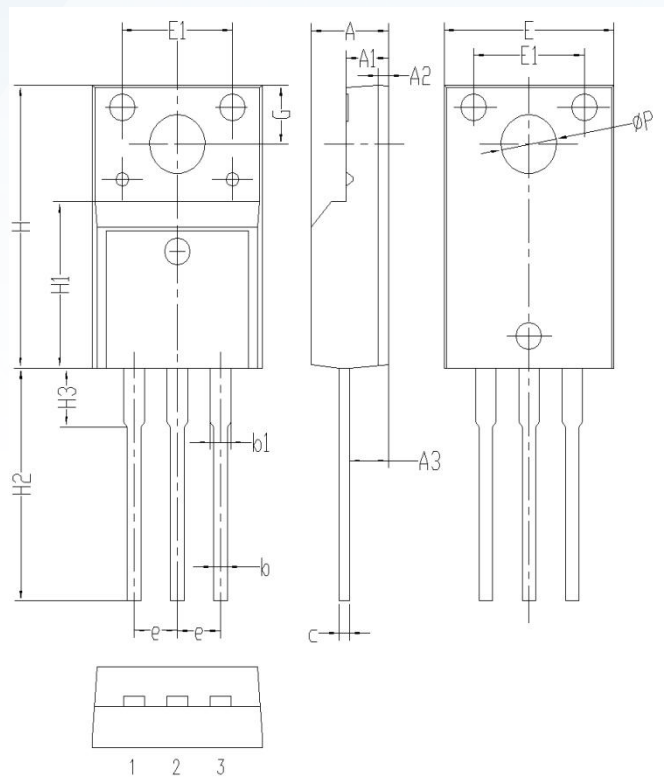
参数名称	参数	测试条件	最小值	典型值	最大值	单位
集电极-基极击穿漏电	I_{CBO}	$V_{CB}=230V; I_E=0$			1.0	μA
发射极-基极击穿漏电	I_{EBO}	$V_{EB}=5V; I_C=0$			1.0	μA
集电极-发射极击穿电压	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	230			V
直流放大增益	h_{FE}	$V_{CE}=5V; I_C=100mA;$	100		320	
集电极-发射极饱和电压	$V_{CE(sat)}$	$I_C=500mA; I_B=50mA$			1.5	V
基极-发射极电压	V_{BE}	$V_{CE}=10V; I_C=500mA$			1.0	V
特征频率	f_T	$V_{CE}=5V; I_C=100mA$	100			MHz

参数	参数说明	典型值	条件
$R_{\theta JC}$	结到管壳温度	0.30	℃/W

典型特征



封装信息：TO-220F 封装



Symbol	单位 mm		
	Min	Nom	Max
A	4.55	4.75	4.95
A1	2.40	2.60	2.80
A2	0.40	0.60	0.80
b	0.60	0.80	1.00
c	0.42	0.50	0.58
e	2.30	2.50	2.70
E	9.9	10.1	10.3
E1	0.68	0.70	0.72
H	15.8	16.0	16.2
H1	9.10	9.30	9.50
H2	12.9	13.2	13.5
H3	3.10	3.30	3.50
G	3.10	3.30	3.50
ϕP	3.00	3.20	3.40

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