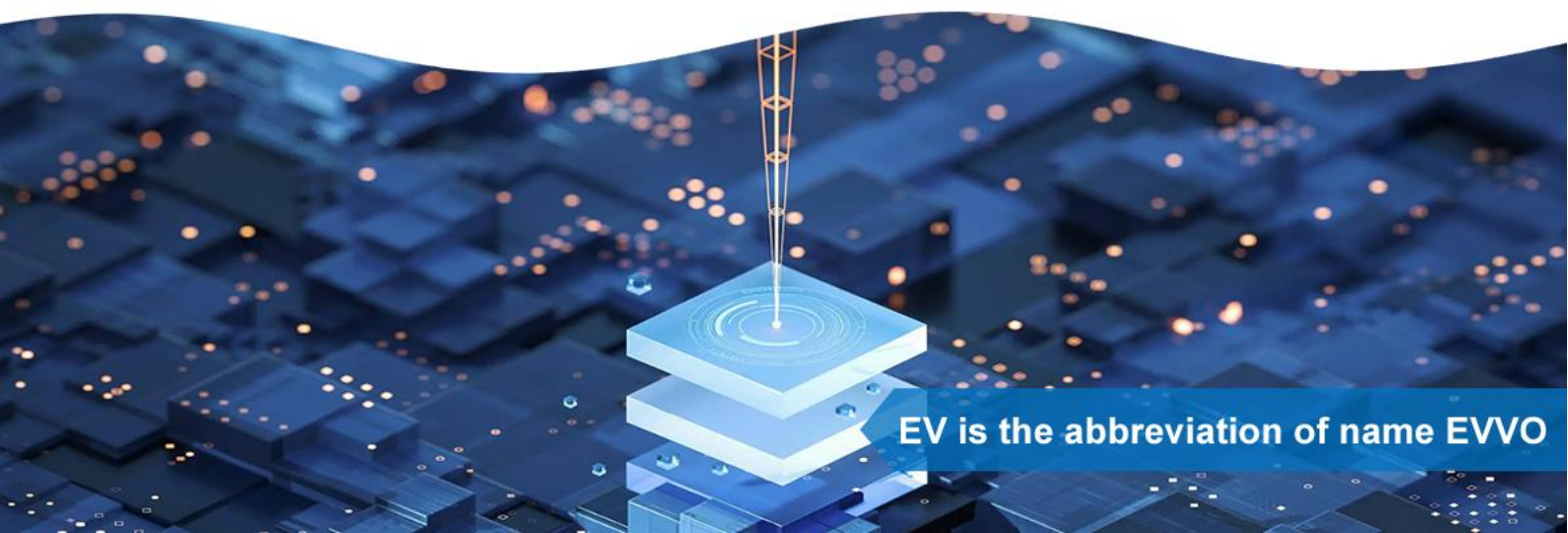
EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

Domestic Part Number	2SA1987 / 2SC5359
Overseas Part Number	2SA1987 / 2SC5359
Equivalent Part Number	2SA1987 / 2SC5359

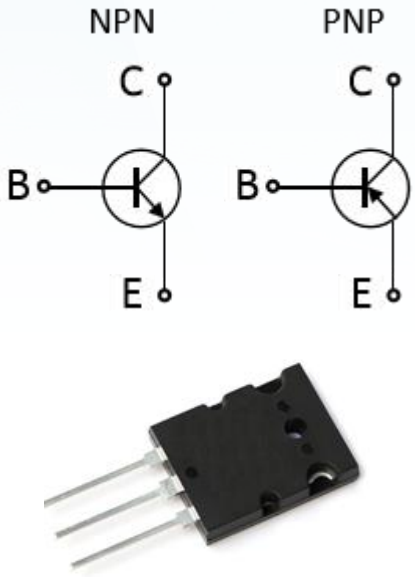


硅-双极型外延平面 NPN-PNP 配对功率放大晶体管

2SA1987(PNP)
2SC5359(NPN)

特点与应用：

- 大的输出电流：Ic=15A
- 高的击穿电压：VCEO≥230V
- 宽的工作区域：3.0A/80V@1 Second
- 优的频率特性：fT>30MHz
- 适用于 100W 以上高保真音频放大器末级输出



封装形式: TO-3PL

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(Tc=25℃):

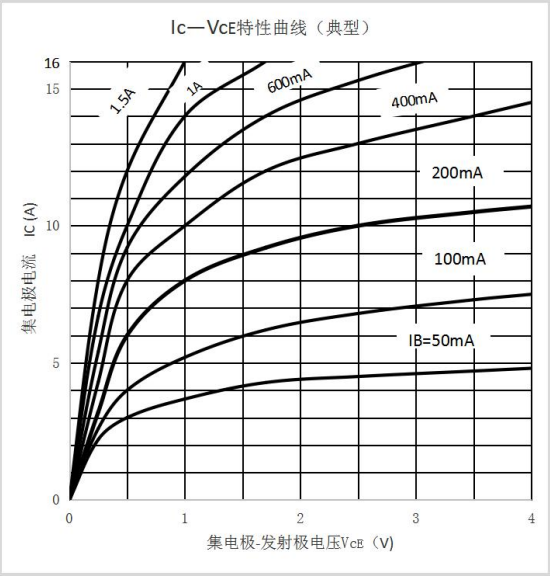
参数名称	符号	额定值	单位
集电极-发射极电压	V_{CBO}	230	V
集电极-基极电压	V_{CEO}	230	V
发射极-基极电压	V_{EBO}	5	V
集电极电流	I_C	15	A
基极电流	I_B	1.5	A
集电极功率损耗(Tc=25℃)	P_C	180	W
接点温度	T_j	150	℃
存储温度范围	T_{STG}	-55~150	℃

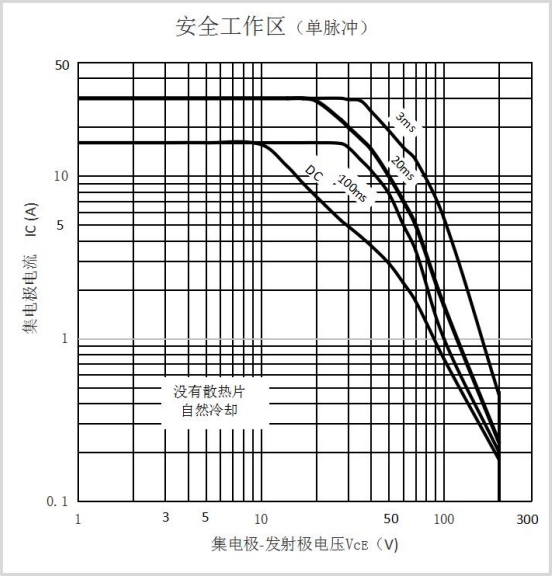
电参数（Tc=25℃）:

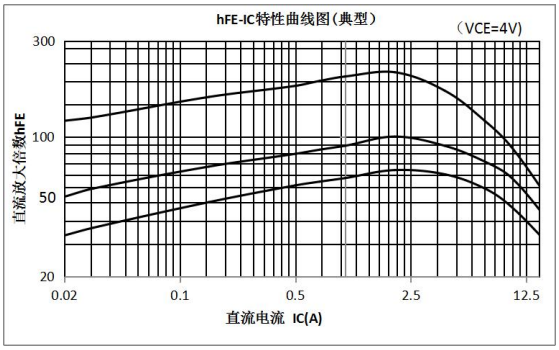
参数名称	参数	测试条件	最小值	典型值	最大值	单位
集电极-基极击穿漏电	I_{CBO}	V_{CB}=230V; I_E=0			5.0	uA
发射极-基极击穿漏电	I_{EBO}	V_{EB}=5V; I_C=0			5.0	uA
集电极-发射极击穿电压	$V_{(BR)CEO}$	I_C=50mA,I_B=0	230			V
放大增益	$h_{FE(1)}$	V_{CE}=5V; I_C=1A;	55		160	
	$h_{FE(2)}$	V_{CE}=5V; I_C=7A;	35			
集电极-发射极饱和电压	$V_{CE(sat)}$	I_C=8A; I_B=0.8A		0.4	1.5	V
基极-发射极电压	V_{BE}	V_{CE}=5V;I_C=7A		1.0	1.5	V
特征频率	f_T	V_{CE}=5V; I_C=1A		30		MHz

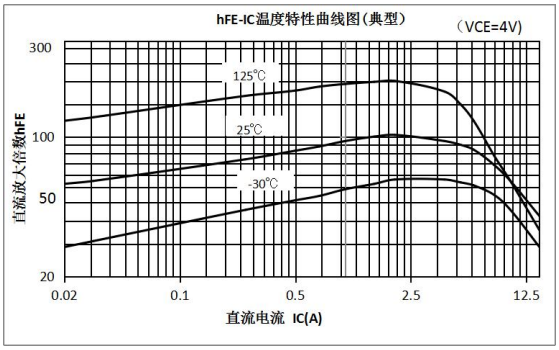
参数	参数说明	典型值	条件
$R_{\theta JC}$	结到管壳温度	0.35	℃/W

典型特征

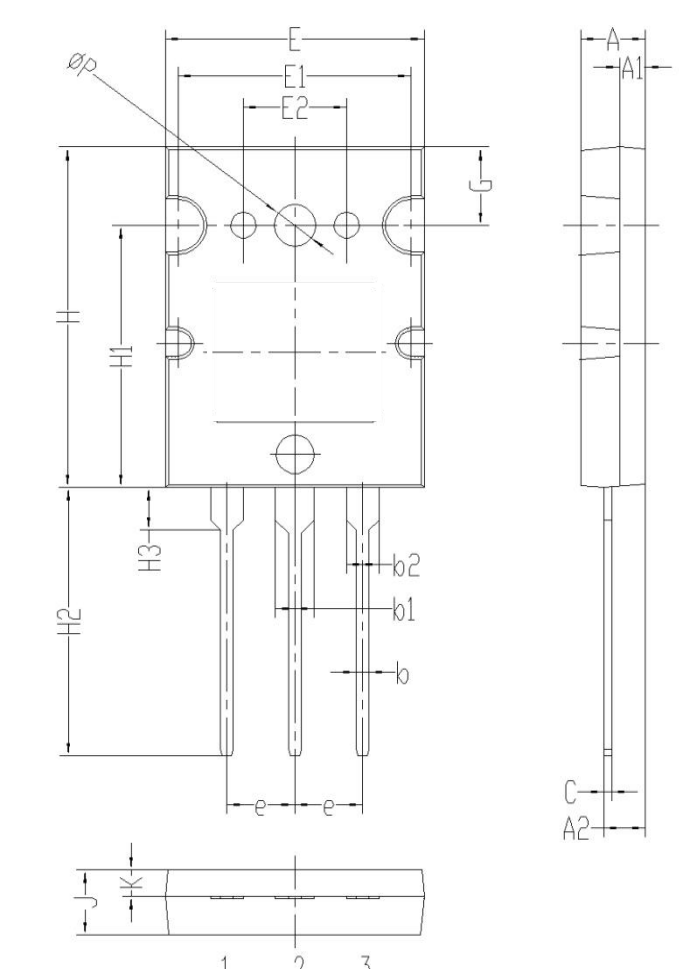








封装信息：TO-3PL 封装



Symbol	Unit mm		
	Min	**Typ**	Max
A	4.80	5.00	5.20
A1	1.8	2.0	2.2
A2	3.30	3.50	3.70
b	0.80	1.0	1.20
b1	2.80	3.00	3.20
b2	2.40	2.60	2.80
c	0.50	0.60	0.70
e	5.25	5.45	5.65
E	19.8	20.0	20.2
E1	17.8	18.0	18.2
E2	7.8	8.0	8.2
H	25.8	26.0	26.2
H1	19.8	20.0	20.2
H2	19.8	20.3	20.8
H3	2.0	2.5	3.0
G	5.8	6.0	6.2
ΦP	3.00	3.20	3.40
J	4.80	5.00	5.20
K	1.3	1.5	1.7

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