EVVOSEMI®

THINK CHANGE DO

ESD TVS MOS LDO Diode Sensor DC-DC

Product Specification

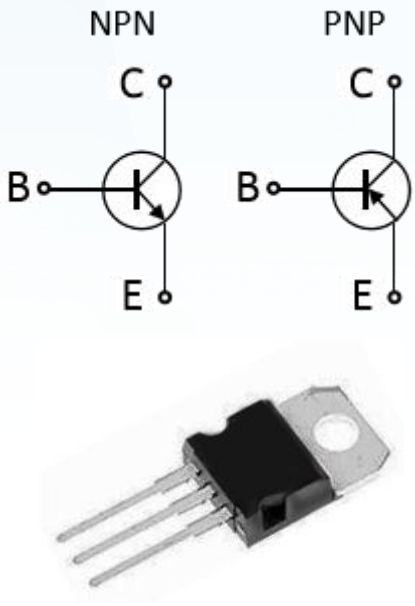
Domestic Part Number	KSA940 / KSC2073
Overseas Part Number	KSA940 / KSC2073
Equivalent Part Number	KSA940 / KSC2073

硅-双极型外延平面 NPN-PNP 配对功率放大晶体管

KSA940(PNP)
KSC2073(NPN)

特点与应用：

- 中的输出电流：Ic=1.5A
- 高的击穿电压：VCEO≥150V
- 宽的工作区域：1A/30V@1 Second
- 优的频率特性：fT>4MHz
- 适用于高保真音频功率放大器前级推动



封装形式: TO-220W

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℃):

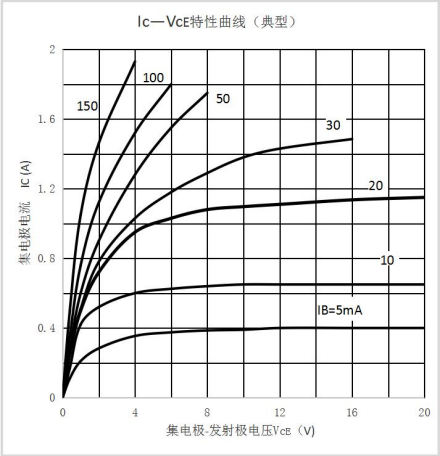
参数名称	符号	额定值	单位
集电极-发射极电压	V_{CBO}	150	V
集电极-基极电压	V_{CEO}	150	V
发射极-基极电压	V_{EBO}	6	V
集电极电流	I_C	1.5	A
基极电流	I_B	0.5	A
集电极功率损耗(Tc=25℃)	P_C	25	W
接点温度	T_j	150	℃
存储温度范围	T_{STG}	-55~150	℃

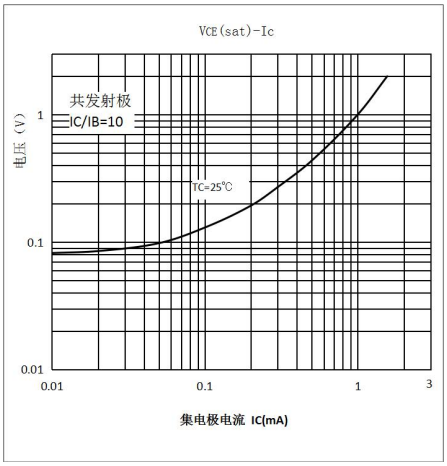
电参数 (Tc=25℃):

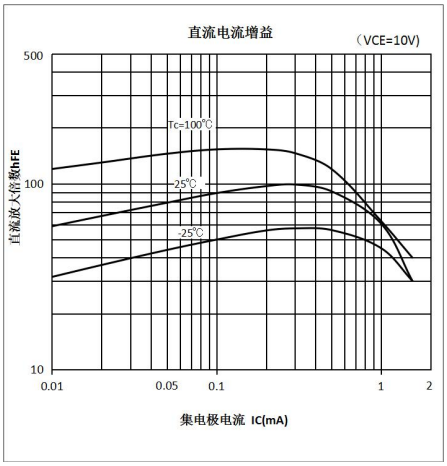
参数名称	参数	测试条件	最小值	典型值	最大值	单位
集电极-基极击穿漏电	I_{CBO}	V_{CB}=120V; I_E=0			10	uA
发射极-基极击穿漏电	I_{EBO}	V_{EB}=5V; I_C=0			10	uA
集电极-发射极击穿电压	$V_{(BR)CEO}$	I_C=1mA,I_B=0	150			V
直流放大增益	h_{FE}	V_{CE}=10V; I_C=500mA;	40	75	140	
集电极-发射极饱和电压	$V_{CE(sat)}$	I_C=500mA; I_B=-50mA			1.5	V
基极-发射极电压	V_{BE}	V_{CE}=10V;I_C=500mA			0.8	V
特征频率	f_T	V_{CE}=5V; I_C=1A		4		MHz

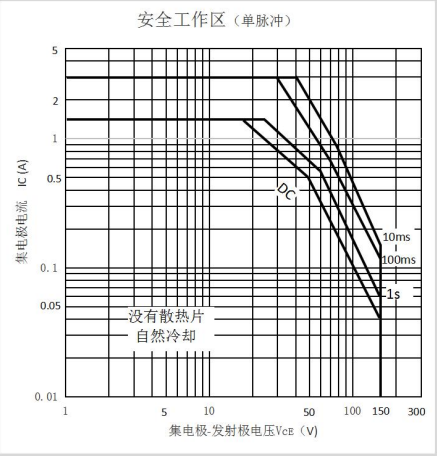
参数	参数说明	典型值	条件
$R_{\theta JC}$	结到管壳温度	0.30	℃/W

典型特征

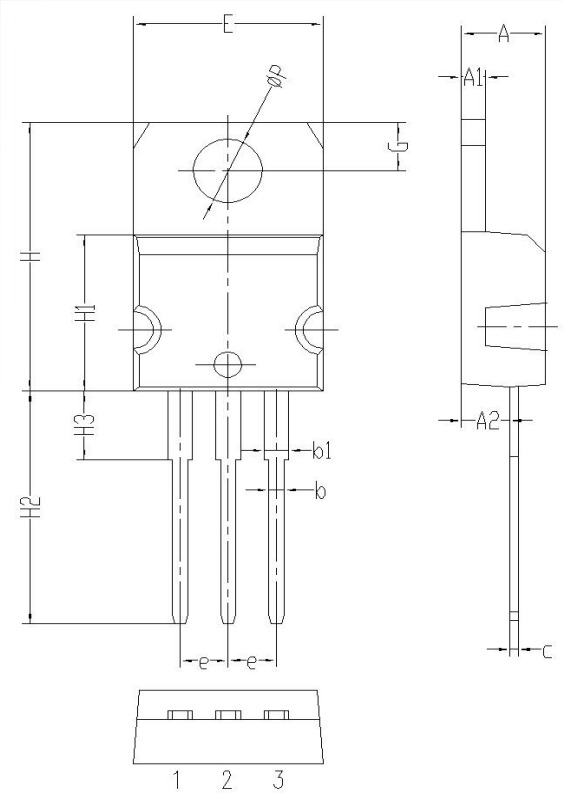








封装信息 ：TO-220W 封装



Symbol	单位 mm		
	Min	**Nom**	Max
A	4.05	4.25	4.45
A1	1.2	1.3	1.4
A2	2.35	2.45	2.55
b	0.60	0.8	1.00
b1	1.12	1.32	1.52
c	0.25	0.45	0.65
e	2.34	2.54	2.74
E	9.8	10.0	10.2
H	15.1	15.3	15.5
H1	8.60	8.8	9.00
H2	13.0	13.5	14.0
H3	3.80	4.0	4.20
G	2.60	2.8	3.00
ΦP	3.60	3.8	4.00

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