## 查询"2SA1993"供应商

(Transistor)

2SA1993

For Low Frequency Amplify Application

Silicon PNP Epitaxial Type Micro(Frame type)

#### DESCRIPTION

2SA1993 is a silicon PNP epitaxial type

transistor. It is designed for low frequency voltage

amplify application.

#### FEATURE

- Small collector to emitter saturation voltage. VcE(sat)=-0.3V max (@ I c=-100mA,I B=-10mA)
- · Excellent linearity of DC forward current gain
- · Small package for easy mounting

#### APPLICATION

For small machine low frequency voltage amplify

application.

MAXIMUM	RATINGS (Ta=25°C)

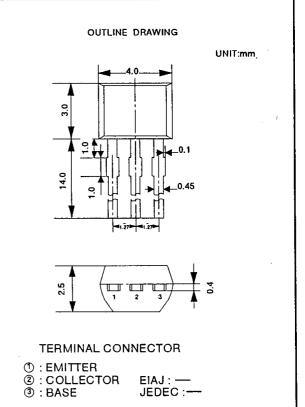
SYMBOL	PARAMETER RATINGS		UNIT
Vсво	Collector to Base voltage	-50	V
Vebo	Emitter to Base voltage	-6	V
Vceo	Collector to Emitter voltage	-50	V
lc	Collector current	-200	mA
Pc	Collector dissipation (Ta=25C)	450	mW
	Junction temperature	+125	C
Tstg	Storage temperature	-55 to +125	°C

#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS			
			MIN	TYP	MAX	UNIT
V(BR)CEO	C to E break down voltage	I c=-100 μA, RBE=∞	-50			V
Ісво	Collector cut off current	Vcb=-50V, 1 E=0			-0.1	μA
I ЕВО	Emitter cut off current	Veb≕-6V, I c≕0			-0.1	μA
hFE *	DC forward current gain	Vce=-6V, I c=-1mA	150		500	-
hFE	DC forward current gain	Vce=-6V, I c=-0.1mA	50			<u> </u>
VCE(sat)	C to E saturation voltage	l c=-100mA, l в=-10mA			-0.3	V
fr	Gain band width product	VCE=-6V, I E=10mA		200		MHz
Сов	Collector output capacitance	Vcb=-6V, I E=0, f=1MHz		4.0		pF
NF	Noise figure	Vce=-6V, I e=0.3mA, f=100Hz,Rg=10kΩ			20	dB

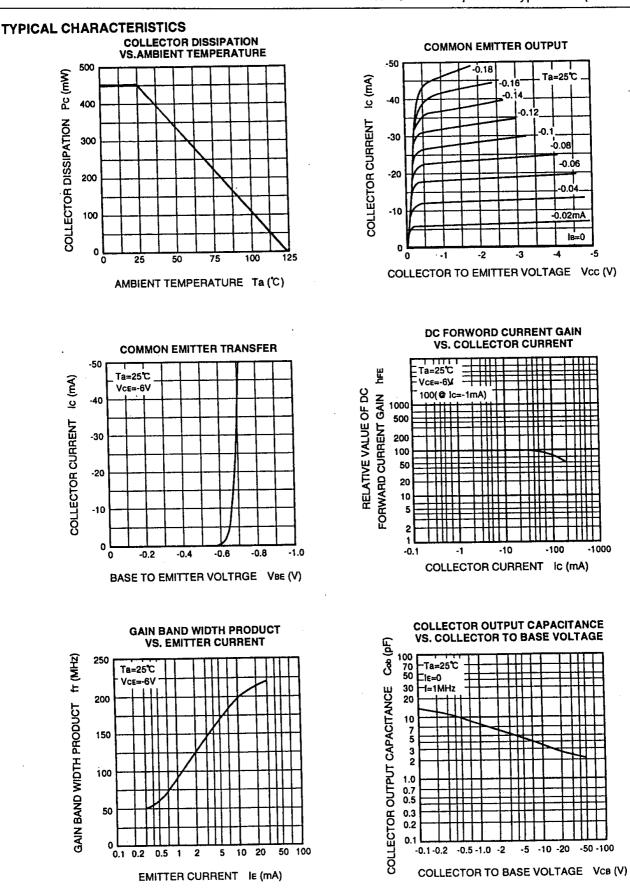
ITEM	E	F
hFE	150~300	250~500

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## **〈Transistor〉**

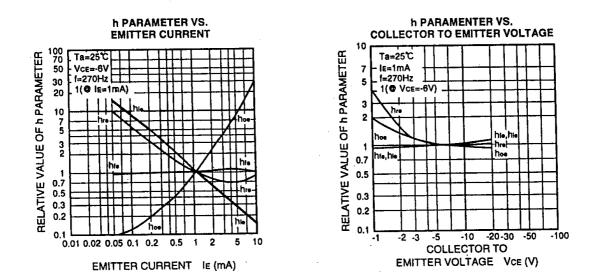
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### (Transistor)

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#### COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test conditions	Limits	Unit
hie	Closed loop small signal input impedance	Ta=25°C	7.0	kΩ
hre	Open loop small signal reverse voltage amplification factor	VCE=-6V	0.1	×10-3
hie	Closed loop small signal forward current amplification factor	le=1mA	250	
hoe	Open loop small signal output admittance	1=270Hz	18	μS

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