

(Transistor)

2SA1995

For Low Frequency Amplify Application
Silicon PNP Epitaxial Type Micro(Frame type)

DESCRIPTION

2SA1995 is a silicon PNP epitaxial type transistor. It is designed for low frequency voltage amplify application.

FEATURE

- Small collector to emitter saturation voltage.
 $V_{CE(sat)} = -0.3V$ max (@ $I_C = -30mA, I_B = -1.5mA$)
- 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)

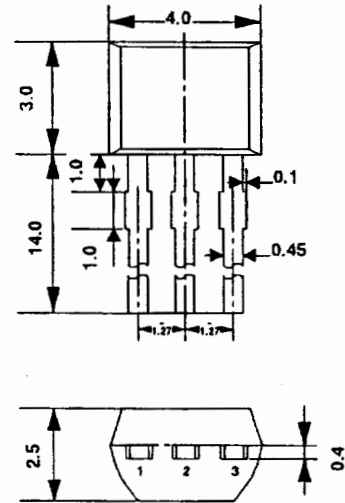
SYMBOL	PARAMETER	RATINGS	UNIT
Vcbo	Collector to Base voltage	-50	V
Vebo	Emitter to Base voltage	-6	V
Vceo	Collector to Emitter voltage	-50	V
Ic	Collector current	-100	mA
Pc	Collector dissipation (Ta=25°C)	450	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55 to +125	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V(BR)CEO	C to E break down voltage	$I_C = -100 \mu A, R_{BE} = \infty$	-50			V
Icbo	Collector cut off current	$V_{CB} = -50V, I_E = 0$			-0.5	μA
Iebo	Emitter cut off current	$V_{EB} = -4V, I_C = 0$			-0.5	μA
hFE *	DC forward current gain	$V_{CE} = -6V, I_C = -1mA$	120		560	—
hFE	DC forward current gain	$V_{CE} = -6V, I_C = -0.1mA$	70			—
VCE(sat)	C to E saturation voltage	$I_C = -30mA, I_B = -1.5mA$			-0.3	V
fr	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		200		MHz
Cob	Collector output capacitance	$V_{CB} = -6V, I_E = 0, f = 1MHz$		2.5		pF

OUTLINE DRAWING

UNIT:mm



TERMINAL CONNECTOR

- ① : EMITTER
 ② : COLLECTOR
 ③ : BASE
- EIAJ : —
 JEDEC : —

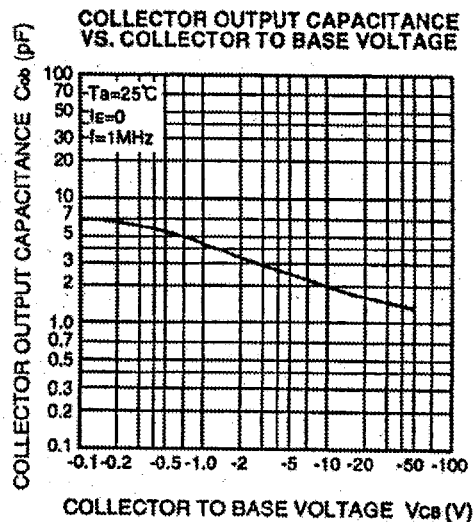
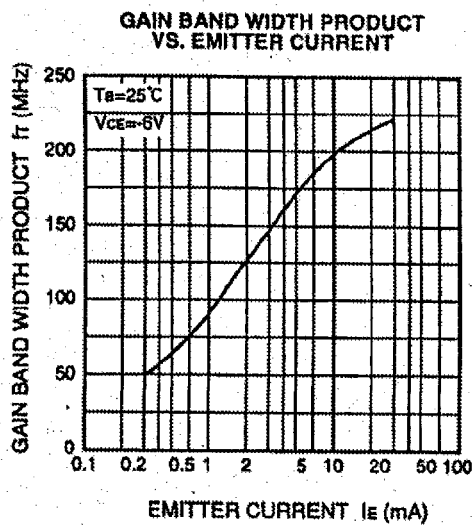
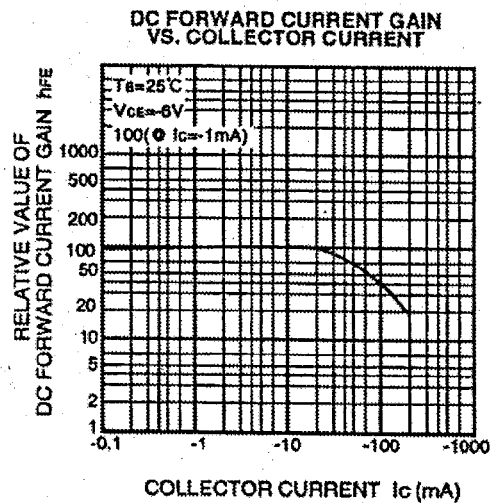
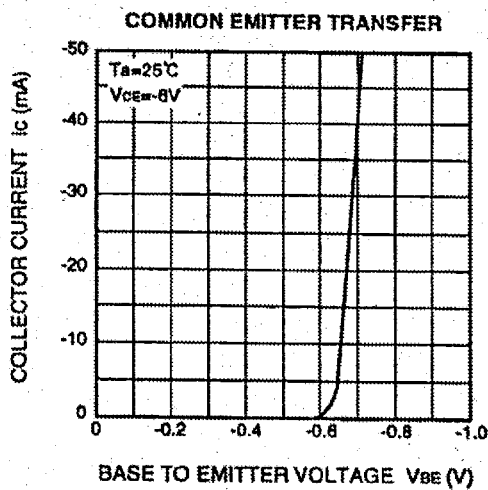
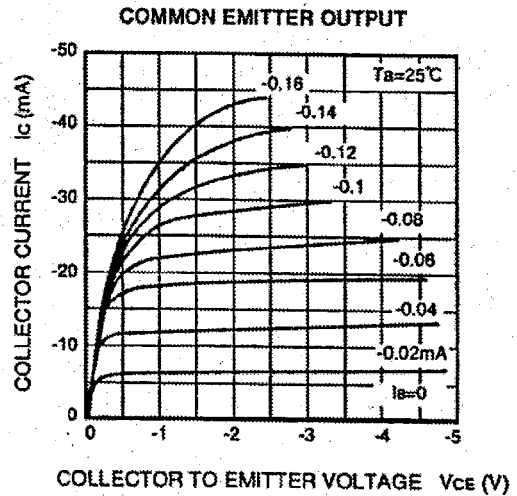
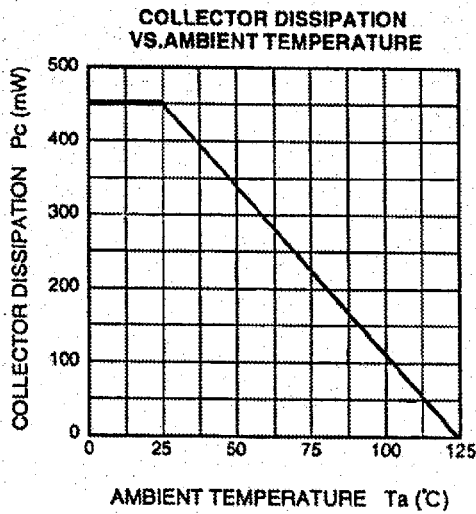
ITEM	Q	R	S
hFE	120~270	180~390	270~560

<Transistor>

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TYPICAL CHARACTERISTICS





Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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