

ISA1995AS1

FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON PNP EPITAXIAL TYPE(FRAME TYPE)

DESCRIPTION

ISA1995AS1 is mini package resin sealed silicon PNP epitaxial transistor, It is designed for low frequency voltage application.

FEATURE

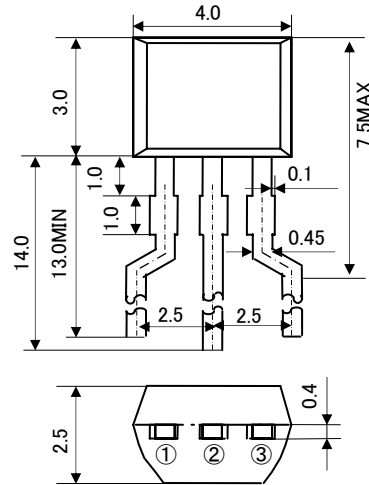
- Small collector to emitter saturation voltage.
 $V_{CE(sat)} = \max -0.3V$ (@ $I_C = -30mA, I_B = -1.5mA$)
- Excellent linearity of DC forward gain.
- Super mini package for easy mounting

APPLICATION

small type machine low frequency voltage Amplify application.

OUTLINE DRAWING

Unit: mm



JEITA:
JEDEC:

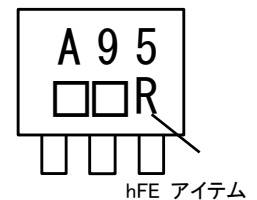
TERMINAL CONNECTER

- ①: EMITTER
- ②: COLLECTOR
- ③: BASE

MAXIMUM RATINGS ($T_a = 25^\circ C$)

Symbol	Parameter	Ratings	Unit
V_{CBO}	Collector to Base voltage	-50	V
V_{CEO}	Collector to Emitter voltage	-6	V
V_{EBO}	Emitter to Base voltage	-50	V
I_O	Collector current	-100	mA
P_c	Collector dissipation	450	mW
T_j	Junction temperature	+150	$^\circ C$
T_{stg}	Storage temperature	-55 ~ +150	$^\circ C$

MARKING



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to E break down voltage	$V_{(BR)CEO}$	$I_C = -100 \mu A, R_{BE} = \infty$	-50	-	-	V
Collector cut off current	I_{CBO}	$V_{CB} = -50V, I_E = 0mA$	-	-	-0.5	μA
Emitter cut off current	I_{EBO}	$V_{EB} = -4V, I_C = 0mA$	-	-	-0.5	μA
DC forward current gain	hFE	$V_{CE} = -6V, I_C = -1mA$	120	-	560	-
DC forward current gain	hFE	$V_{CE} = -6V, I_C = -0.1mA$	70	-	-	-
C to E Saturation Voltage	$V_{CE(sat)}$	$I_C = -30mA, I_B = -1.5mA$	-	-	-0.3	V
Gain bandwidth product	fT	$V_{CE} = -6V, I_E = 10mA$	-	200	-	MHz
Collector output capacitance	Cob	$V_{CB} = -6V, I_E = 0mA, f = 1MHz$	-	2.5	-	pF

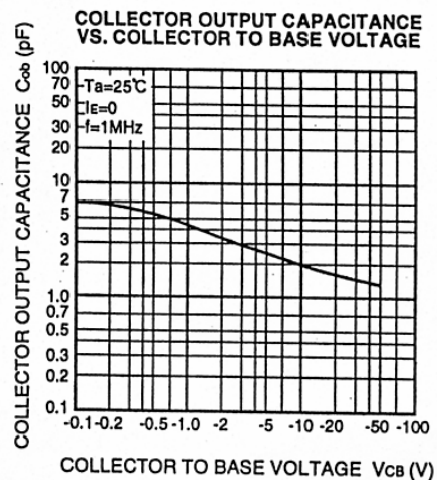
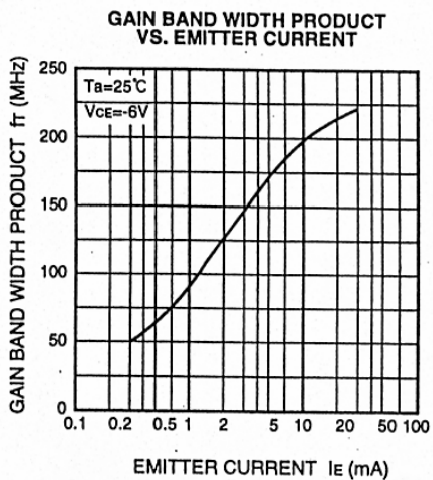
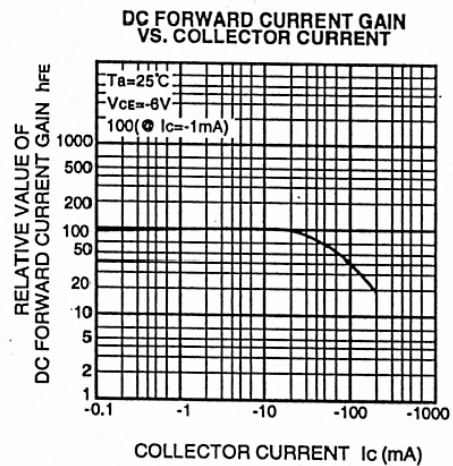
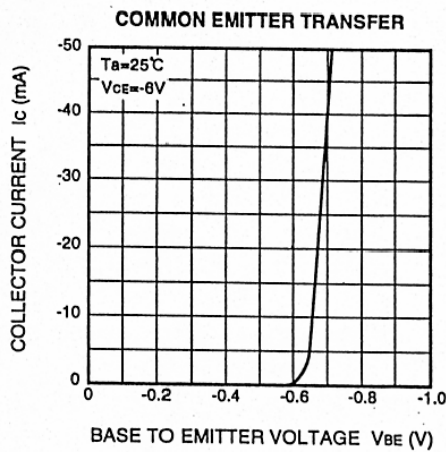
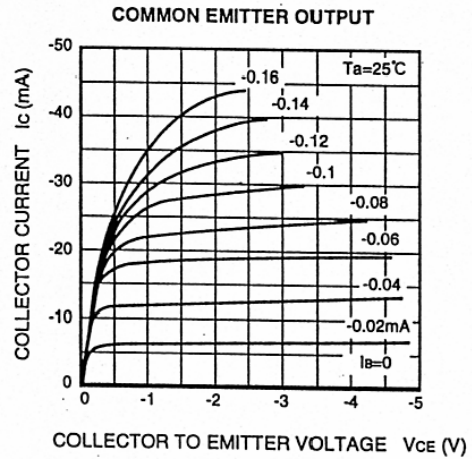
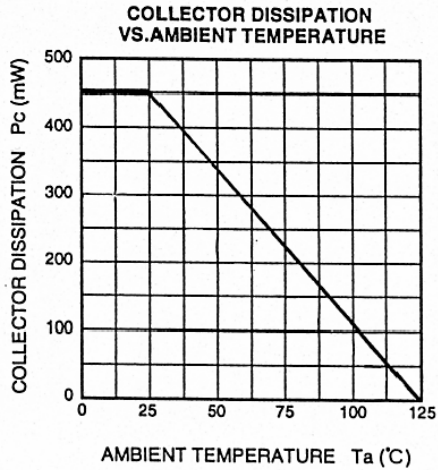
※) It shows hFE classification in below table.

Item	Q	R	S
hFE item	120 ~ 270	180 ~ 390	270 ~ 560

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TYPICAL CHARACTERISTICS





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