ISA1530AC1

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

ISA1530AC1 is a mini package resin sealed

silicon PNP epitaxial transistor,

It is designed for low frequency voltage application.

FEATURE

• Small collector to emitter saturation voltage.

 $V_{CE(sat)}$ =-0.3V max(@I_C=-100mA/I_B=-10mA)

•Excellent linearity of DC forward current gain.

•Super mini package for easy mounting.

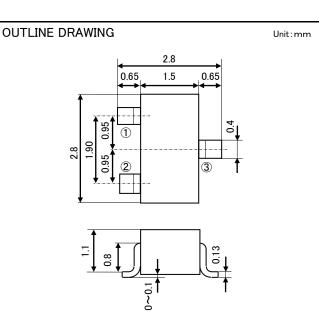
APPLICATION

For small type machine low frequency voltage amplify application

MAXIMUM RATINGS(Ta=25°C)

Parameter	Symbol	Ratings	Unit	
Collector to Base voltage	V _{CBO}	-60	V	
Emitter to Base voltage	V _{EBO}	-6	V	
Collector to Emitter voltage	V _{CEO}	-50	V	
Collector current	Ic	-150	mA	
Collector dissipation	Pc	200	mW	
Junction temperature	Tj	+150	°C	
Storage temperature	Tstg	-55 ~ +150	°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C)



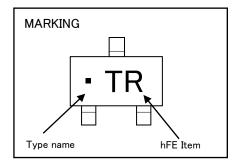
TERMINAL CONNECTER

JEITA:SC-59

- JEDEC: Similar to TO-236
- 2: EMITTER

(1): BASE

(3): COLLECTOR



Parameter	Symbol	Toot conditions	Limits			Unit
		Test conditions	Min	Тур	Max	Unit
C to E breakdown voltage	V _{(BR)CEO}	I_c =-100 μ A, R_{BE} = ∞	-50	-	-	V
Collector cut off current	I _{CBO}	V_{CB} =-60V, I _E =0mA	-	-	-0.1	μA
Emitter cut off current	I _{EBO}	V_{EB} =-4V, I_{C} =0mA	-	-	-0.1	μA
DC forward current gain $$	h _{FE}	V _{CE} =-6V, I _C =-1mA	120	-	560	-
DC forward current gain	h _{FE}	V _{CE} =-6V, I _C =-0.1mA	70	-	-	-
C to E Saturation voltage	$V_{CE(sat)}$	I _c =-100mA, I _B =-10mA	-	-	-0.3	V
Gain bandwidth product	f⊤	V_{CE} =-6V, I_E =10mA	-	200	-	MHz
Collector output capacitance	Cob	V_{CB} =-6V, I _E =0, f=1MHz	-	4.0	-	pF
Noise figure	NF	$V_{ce}\text{=-6V},~I_{e}\text{=}0.3\text{mA},~\text{f}\text{=}100\text{Hz},~\text{RG}\text{=}10\text{k}\Omega$	-	-	20	dB

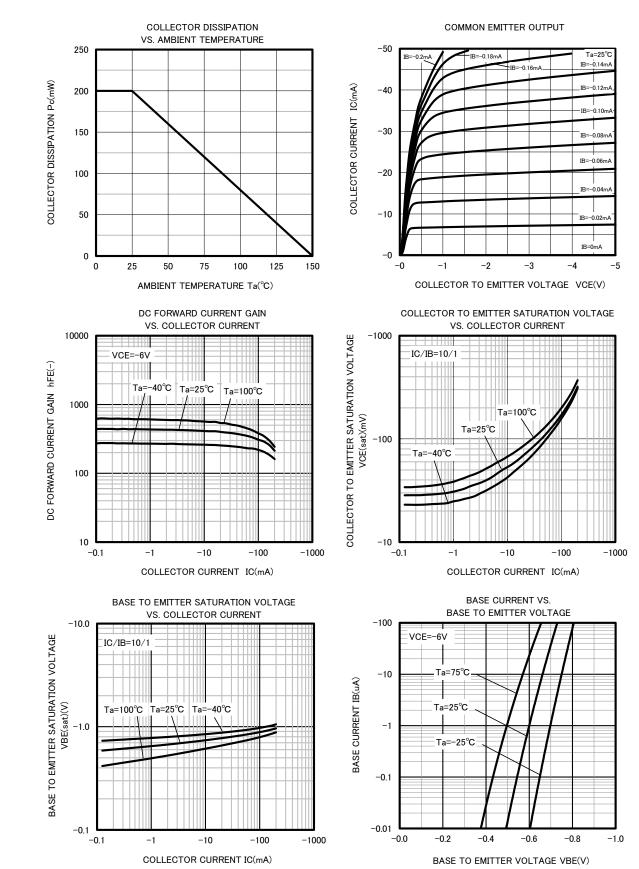
※) It shows hFE classification at right table.

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

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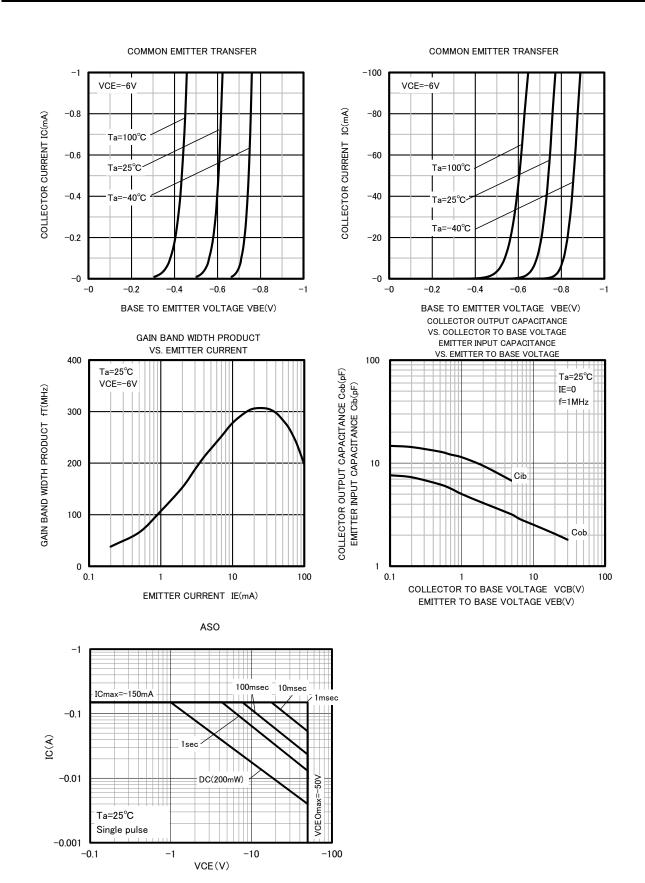


TYPICAL CHARACTERISTICS

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Keep safety first in your circuit designs!

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