RT3AMMAM1-T150

Composite Transistor
For Low Frequency Amplify Application
Silicon PNP Epitaxial Type

AEC-Q101 Compliance

DESCRIPTION

RT3AMMAM1 is compound transistor built with two ISA1235A chips in SC-88 package.

FEATURE

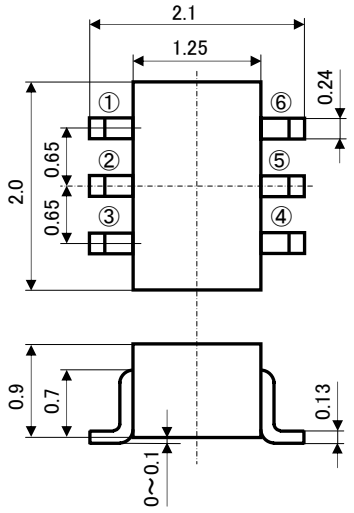
Silicon PNP epitaxial type
Each transistor elements are independent.
Mini package for easy mounting.

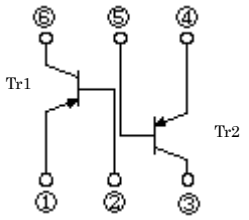
APPLICATION

For low frequency amplify application.

OUTLINE DRAWING

Unit:mm





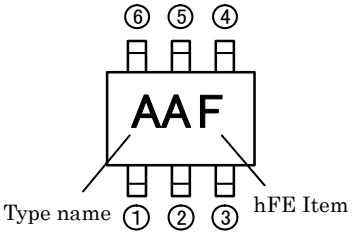
TERMINAL CONNECTOR
①: EMITTER1
②: BASE1
③: COLLECTOR2
④: EMITTER2
⑤: BASE2
⑥: COLLECTOR1

JEITA: SC-88

MAXIMUM RATING (Ta=25℃)(Tr1,Tr2)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	-60	V
V_{EBO}	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-50	V
I_C	Collector current	-200	mA
P_T	Total dissipation	200	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temperature	-55～+150	℃

MARKING



ELECTRICAL CHARACTERISTICS (Ta=25℃)(Tr1,Tr2)

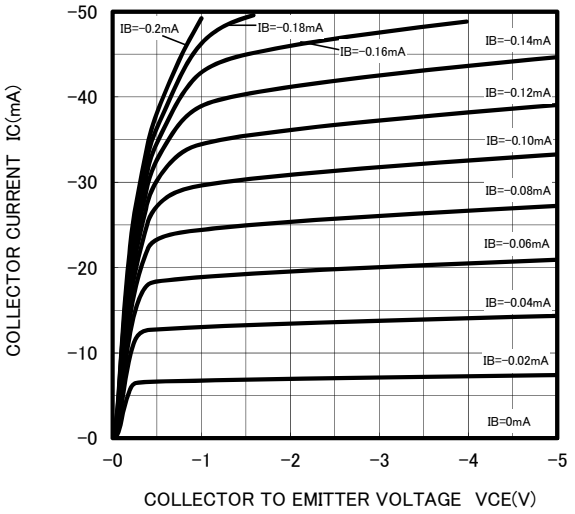
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CEO}$	Collector to Emitter breakdown voltage	I_C=100μA,R_{BE}=∞	-50	−	−	V
I_{CBO}	Collector cut off current	V_{CB}=-60V,I_E=0	−	−	-0.1	μA
I_{EBO}	Emitter cut off current	V_{EB}=-6V,I_C=0	−	−	-0.1	μA
h_{FE}*	DC forward current gain	V_{CE}=-6V,I_C=-1mA	150	−	500	−
h_{FE}	DC forward current gain	V_{CE}=-6V,I_C=-0.1mA	90	−	−	−
$V_{CE(sat)}$	Collector to Emitter saturation voltage	I_C=-100mA,I_B=-10mA	−	−	-0.3	V
f_T	Gain band width product	V_{CE}=-6V,I_E=10mA	−	200	−	MHz
C_{ob}	Collector output capacitance	V_{CB}=-6V,I_E=0,f=1MHz	−	4.0	−	pF
NF	Noise figure	V_{CE}=6V,I_E=0.3mA,f=100Hz,R_G=10kΩ	−	−	20	dB

* : It shows h_{FE} classification in right table.

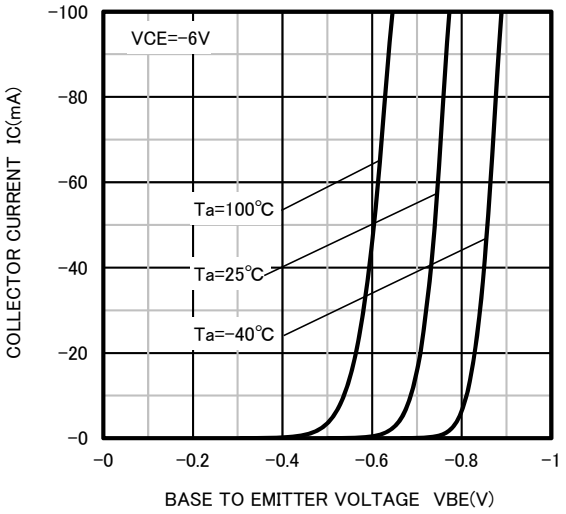
item	E	F
h_{FE}	150～300	250～500

TYPICAL CHARACTERISTICS (Tr1,Tr2.)

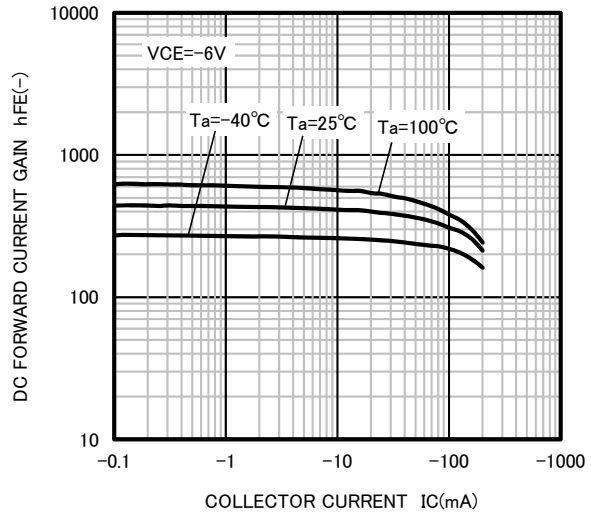
COMMON EMITTER OUTPUT



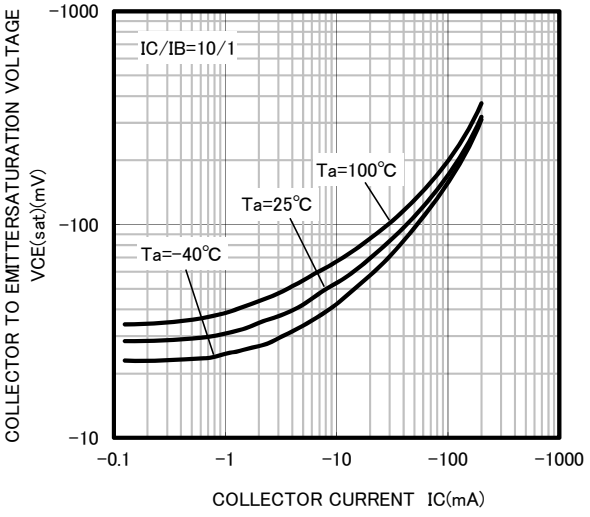
COMMON EMITTER TRANSFER



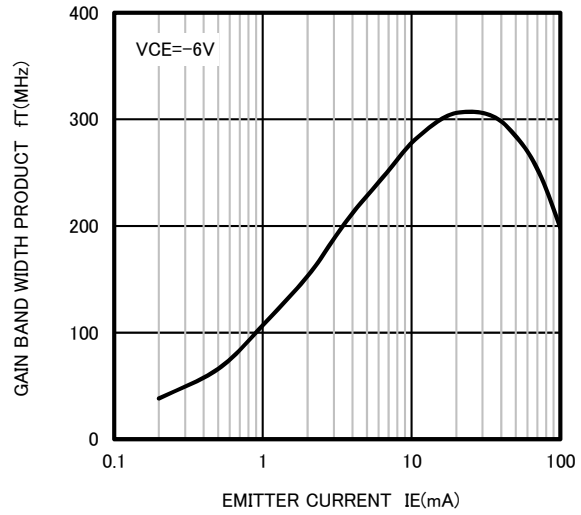
DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT



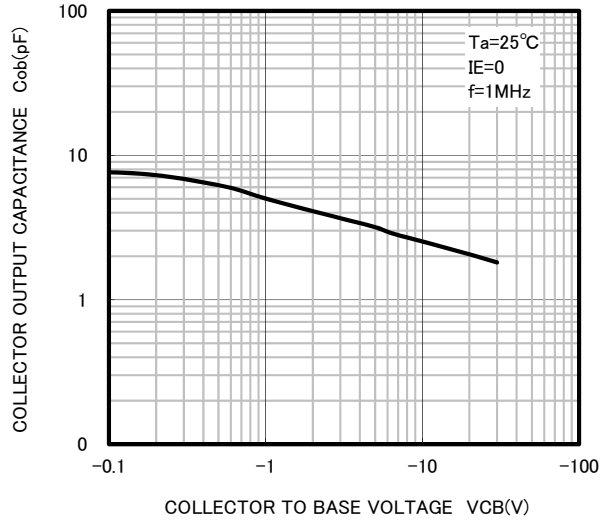
COLLECTOR TO EMITTERSATURATION
VOLTAGE VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT
VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE
VS. COLLECTOR TO BASE VOLTAGE



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