

RT3CLLM

Compound Transistor
For Low Frequency Amplify Application
Silicon Npn Epitaxial Type

DESCRIPTION

RT3CLLM is a compound transistor built with two 2SC3052 chips in SC-88 package.

FEATURE

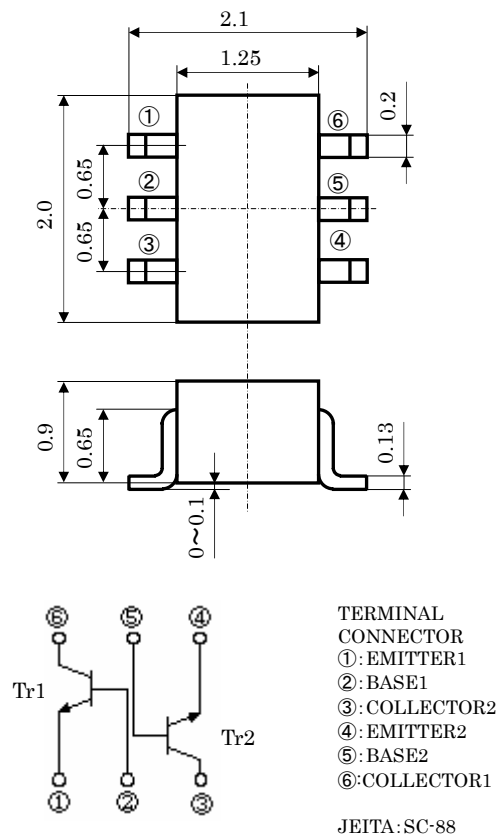
- Silicon npn epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

For low frequency amplify application

OUTLINE DRAWING

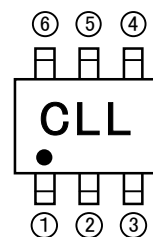
Unit: mm



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	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	200	mA
PC(Total)	Collector dissipation (Ta=25°C)	150	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55~+125	°C

MARKING



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ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CEO	Collector to Emitter break down voltage	IC=100 μ A, RBE=∞	50	-	-	V
ICBO	Collector cut off current	VCB=50V, IE=0	-	-	0.1	μ A
IEBO	Emitter cut off current	VEB=6V, IC=0	-	-	0.1	μ A
hFE*	DC forward current gain	VCE=6V, IC=1mA	150	-	800	-
hFE	DC forward current gain	VCE=6V, IC=0.1mA	90	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	IC=100mA, IB=10mA	-	-	0.3	V
fT	Gain band width product	VCE=6V, IE=-10mA	-	200	-	MHZ
Cob	Collector output capacitance	VCB=6V, IE=0, f=1MHz	-	2.5	-	pF
NF	Noise figure	VCE=6V, IE=-0.1mA, f=1kHz, RG=2kΩ	-	-	15	dB

* : It shows hFE classification in right table.

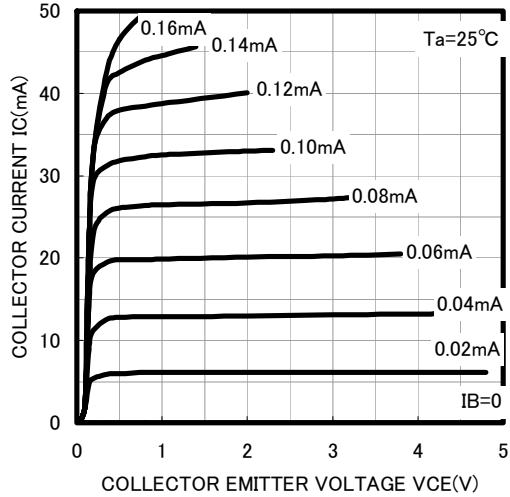
Item	E	F	G
hFE	150~300	250~500	400~800

RT3CLLM

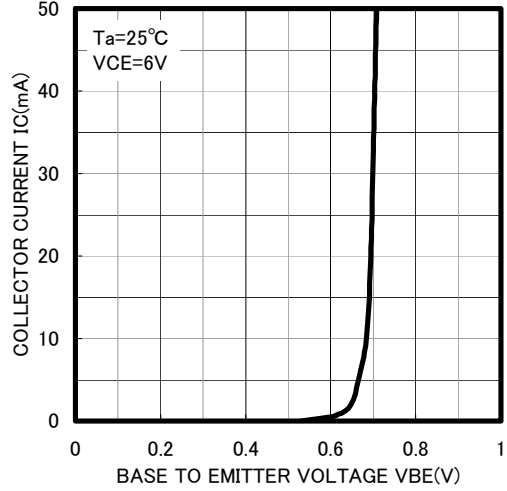
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TYPICAL CHARACTERISTICS

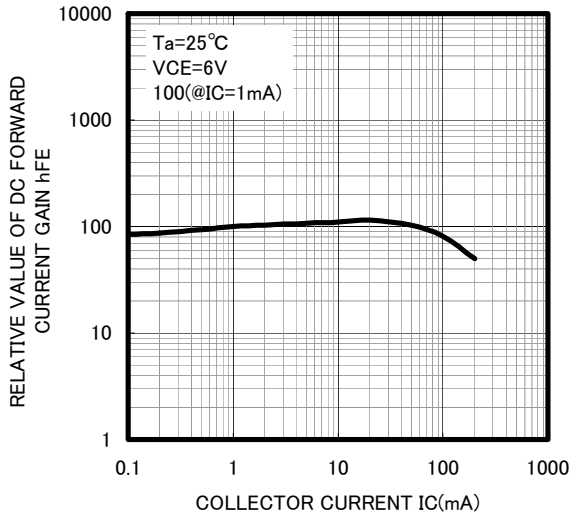
COMMON EMITTER OUTPUT



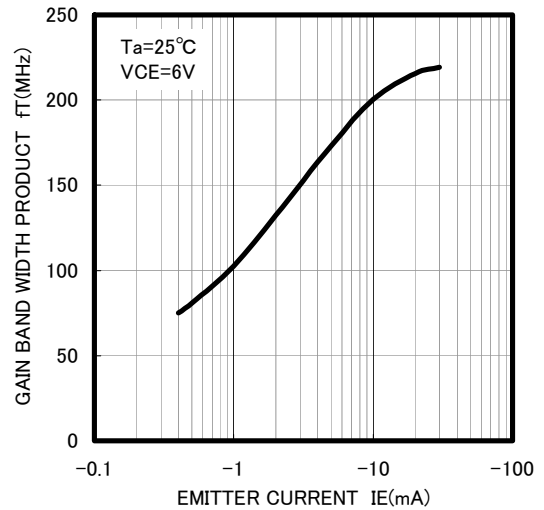
COMMON EMITTER TRANSFER



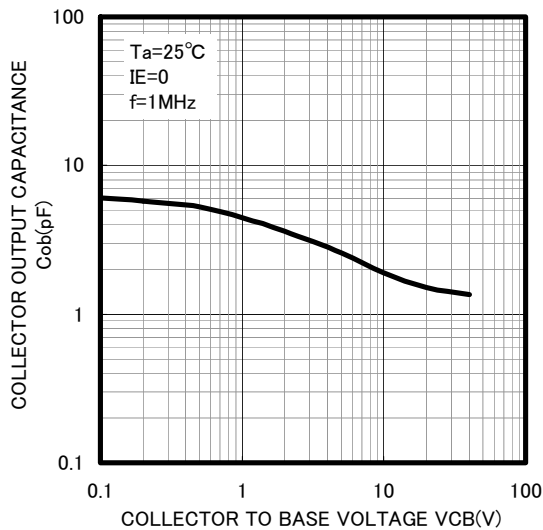
DC FORWARD CURRENT GAIN VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE VS. COLLECTOR TO BASE VOLTAGE





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