

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

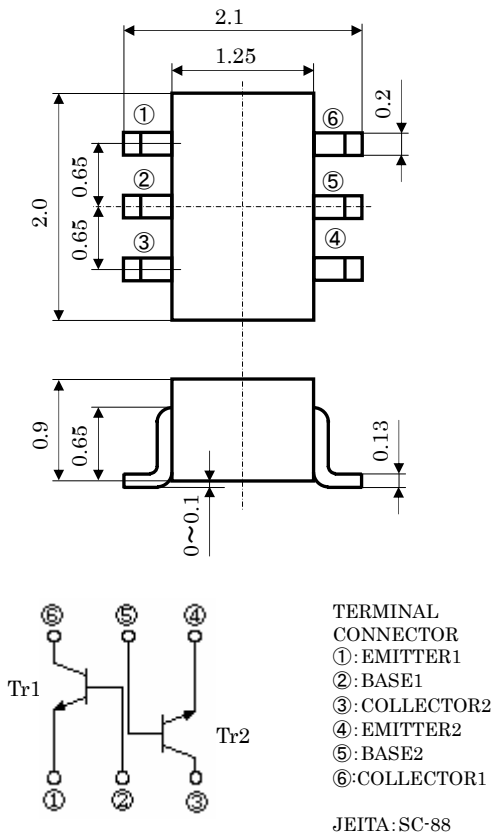
- Silicon npn epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

For low frequency amplify application

OUTLINE DRAWING

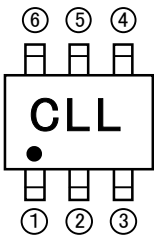
Unit: mm



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=2k Ω	-	-	15	dB

* : It shows hFE classification in right table.

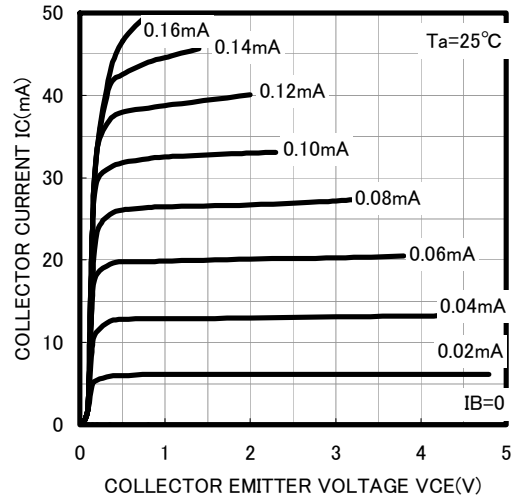
Item	E	F	G
hFE	150~300	250~500	400~800

RT3CLLM

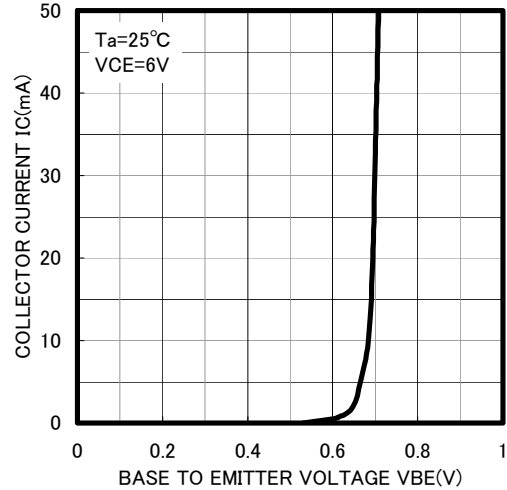
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TYPICAL CHARACTERISTICS

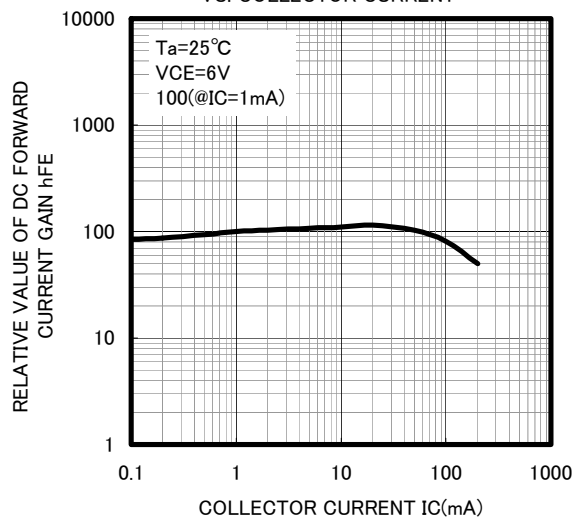
COMMON EMITTER OUTPUT



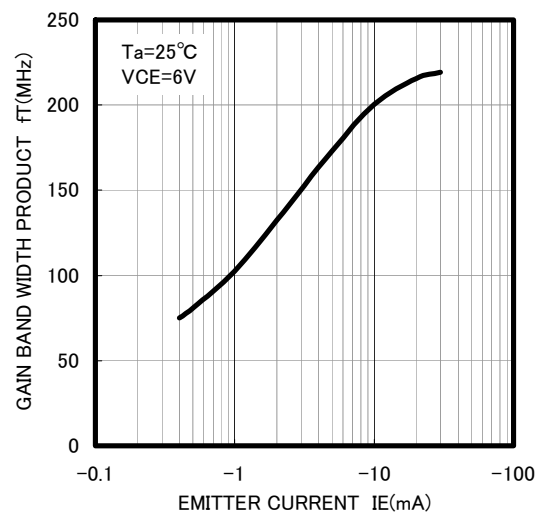
COMMON EMITTER TRANSFER



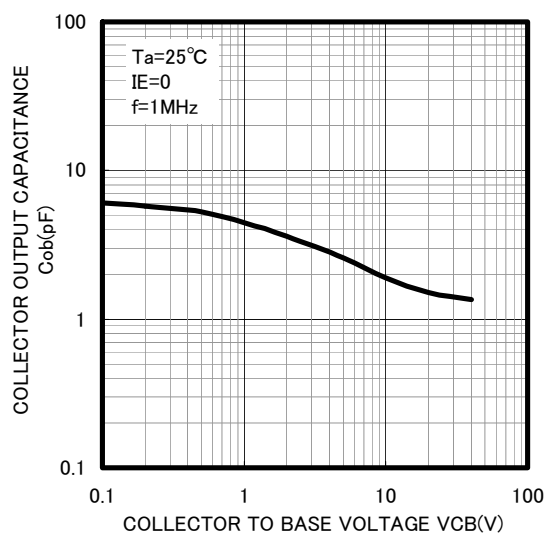
DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT
VS. EMITTER CURRENT



COLLECTOR OUTPUT CAPACITANCE
VS. COLLECTOR TO BASE VOLTAGE





Marketing division, Marketing planning department

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

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