

RT3TUUM

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3TUUM is composite transistor built with RT1N14B chip and RT1P14B chip in SC-88 package.

FEATURE

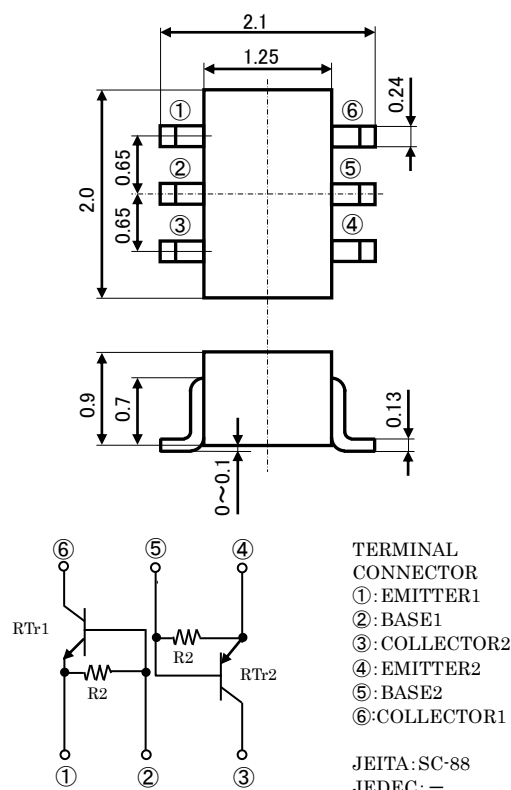
Built-in bias resistor (R2=10kΩ)
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit,
Interface circuit, Driver circuit

OUTLINE DRAWING

Unit:mm

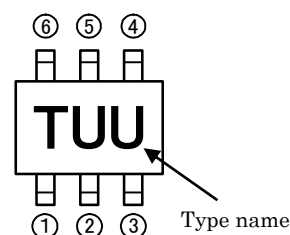


MAXIMUM RATING (Ta=25°C) (RTr1_NPN, RTr2_PNP)

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	100	mA
ICM	Peak Collector current	200	mA
PT	Total dissipation	200	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55~+150	°C

※PNP built in transistor of "—" sign is abbreviation.

MARKING

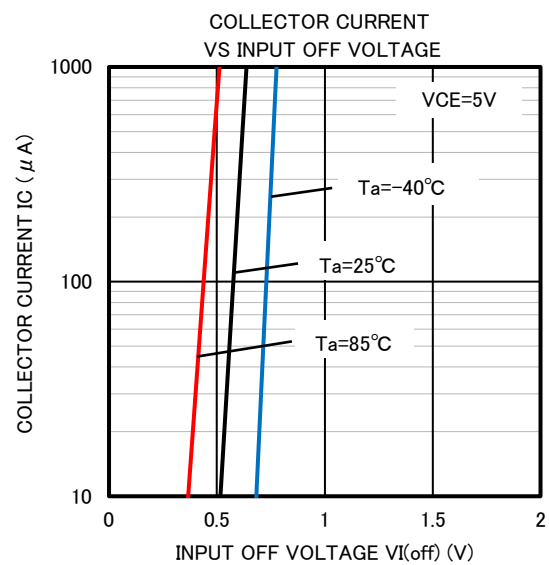
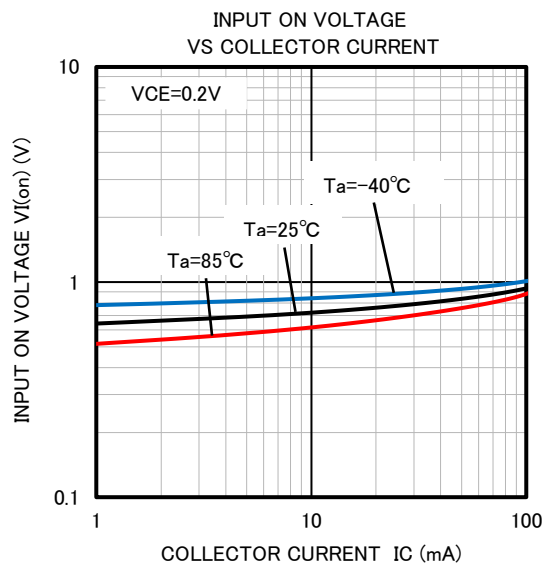
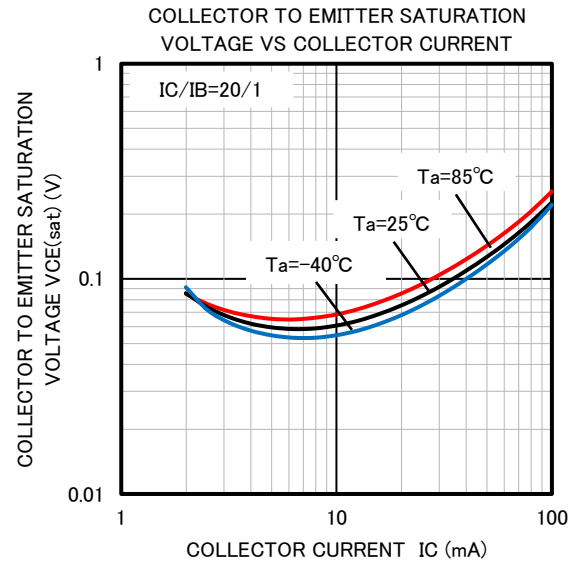
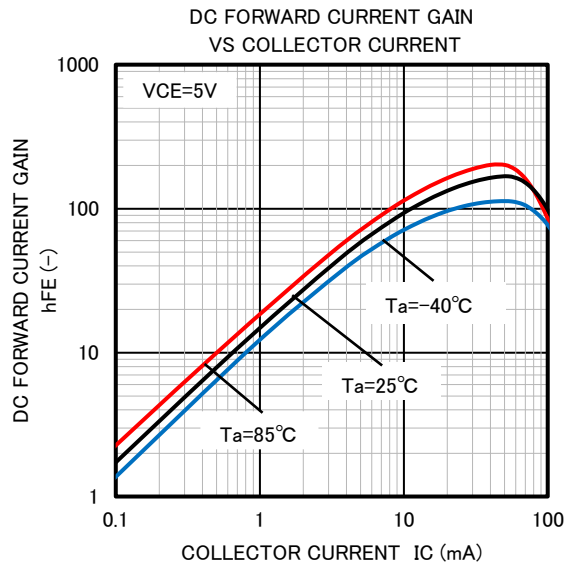


ELECTRICAL CHARACTERISTICS (Ta=25°C) (RTr1_NPN, RTr2_PNP)

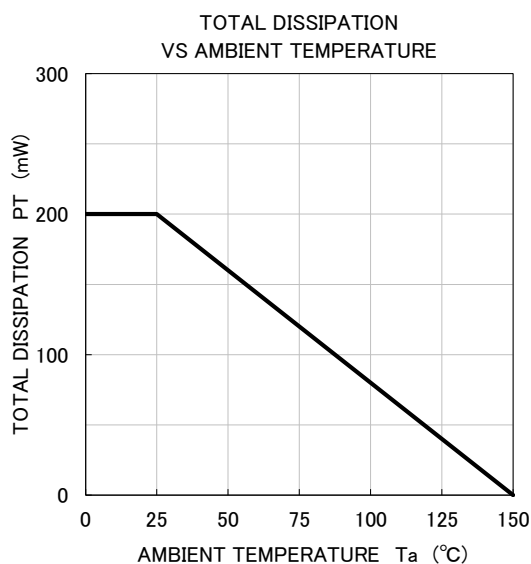
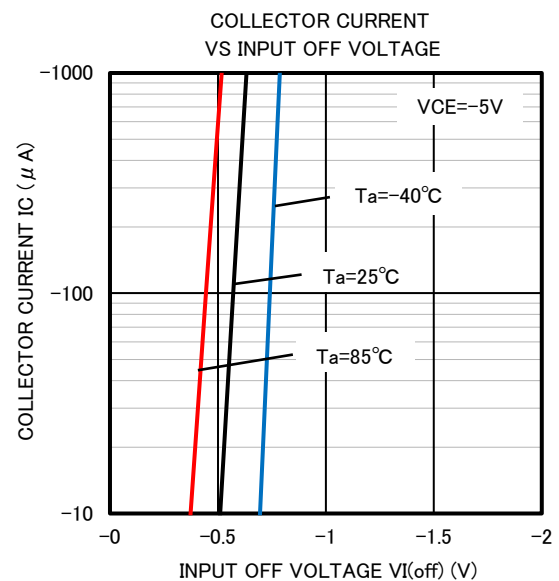
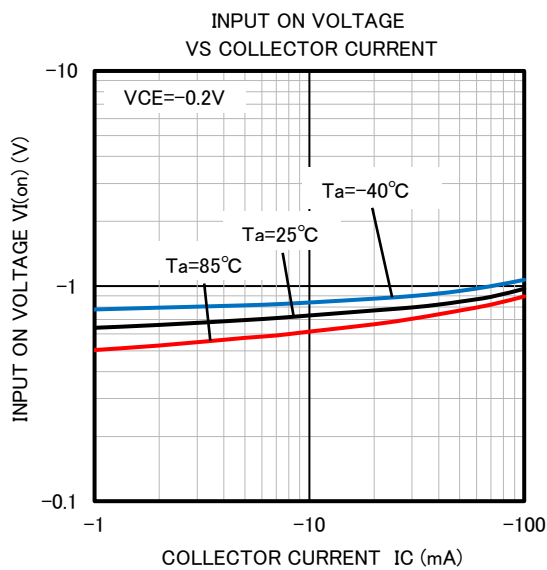
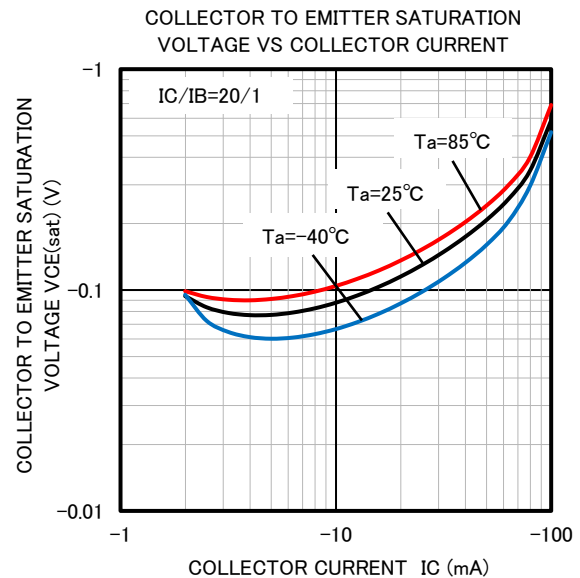
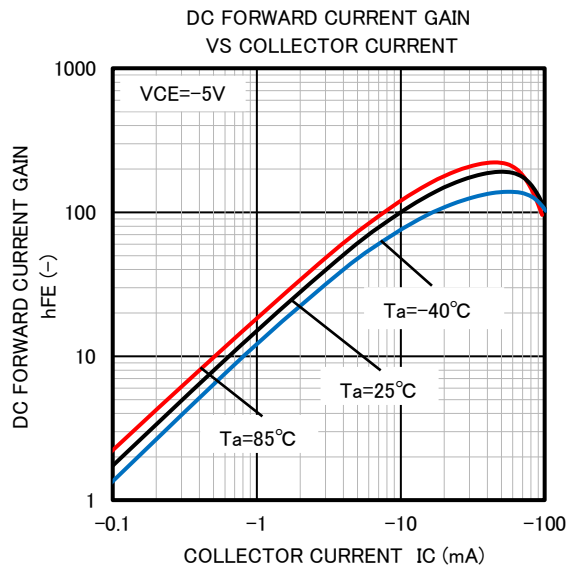
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CEO	Collector to Emitter breakdown voltage	IC=100 μA, RBE=∞	50	—	—	V
ICBO	Collector cut off current	VCE=50V, IE=0	—	—	0.1	μA
IEBO	Emitter cut off current	VEB=5V, IC=0	375	500	725	μA
hFE	DC forward current gain	VCE=5V, IC=5mA	30	—	—	—
VCE(sat)	Collector to Emitter saturation voltage	IC=10mA, IB=0.5mA	—	—	0.3	V
R2	Emitter to Base resistor	—	7	10	13	kΩ
fT	Gain band width product	VCE=6V, IE=10mA	RTr1	—	200	MHz
			RTr2	—	150	

※PNP built in transistor of "—" sign is abbreviation.

TYPICAL CHARACTERISTICS (RT_r1_NPN)



TYPICAL CHARACTERISTICS (RT_r 2_PNP)



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