

RT3T55M

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3T55M is a composite transistor built with RT1N141 chip and RT1P431 chip in SC-88 package.

FEATURE

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

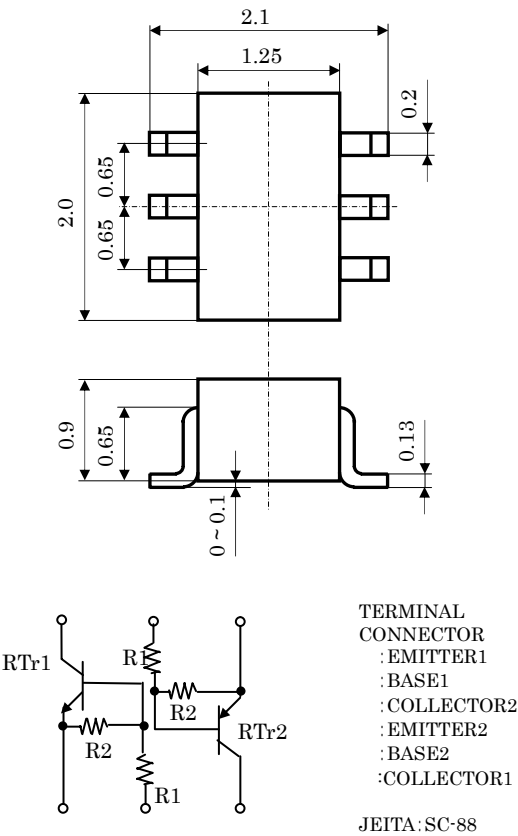
APPLICATION

- Inverted circuit, switching circuit,
- interface circuit, driver circuit

PNP built in transistor of " - " sign is abbreviation.

OUTLINE DRAWING

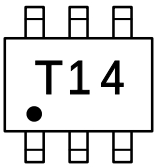
Unit: mm



MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING		UNIT
VCBO	Collector to Base voltage	50		V
VEBO	Emitter to Base voltage	Tr1 10	Tr2 6	V
VCEO	Collector to Emitter voltage	50		V
IC	Collector current	100		mA
ICM	Peak Collector current	200		mA
PC	Collector dissipation (Total, Ta=25)	150		mW
Tj	Junction temperature	+ 150		
Tstg	Storage temperature	-55 ~ + 150		

MARKING



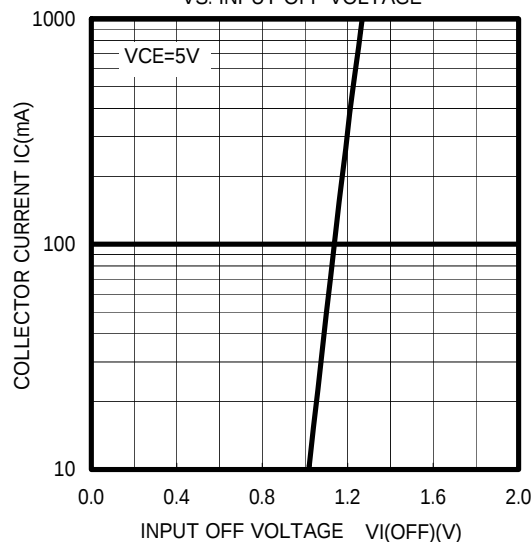
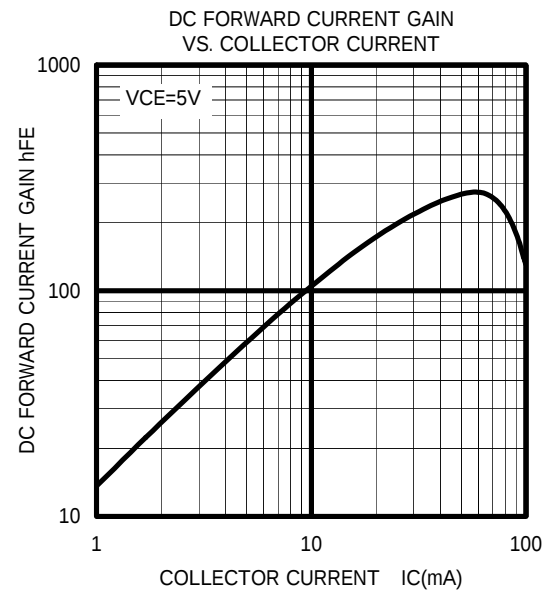
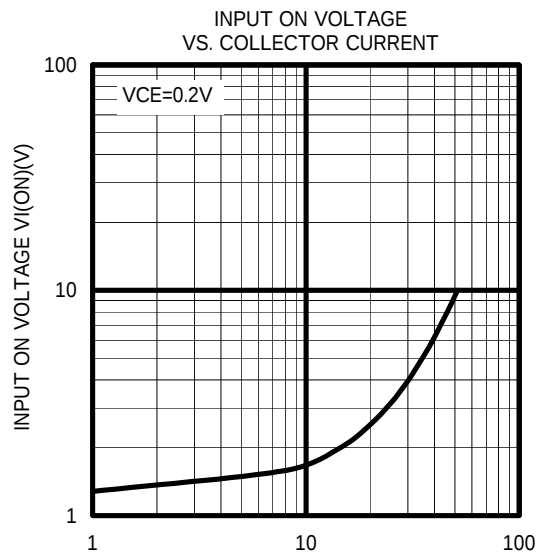
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ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CEO	Collector to Emitter break down voltage	IC=100μA, RBE=∞	50	-	-	V
ICBO	Collector cut off current	VCB=50V, IE=0	-	-	0.1	μA
hFE	DC forward current gain	Tr1 VCE=5V, IC=10mA	50	-	-	-
		Tr2 VCE=5V, IC=5mA				
VCE(sat)	Collector to Emitter saturation voltage	IC=10mA, IB=0.5mA	-	0.1	0.3	V
VI(ON)	Input on voltage	VCE=0.2V, IC=5mA		1.5	3.0	V
				0.9	1.7	
VI(OFF)	Input off voltage	VCE=5V, IC=100μA	Tr1 0.8	1.1		V
			Tr2 0.5	0.7		
R1	Input resistor	-	Tr1 7	10	13	kΩ
			Tr2 3.3	4.7		
R2/R1	Resistor ratio	-	Tr1 0.9	1.0	1.1	-
			Tr2 4.2	4.7	5.1	
fT	Gain band width product	VCE=6V, IE=-10mA	-	200	-	MHz
				150		

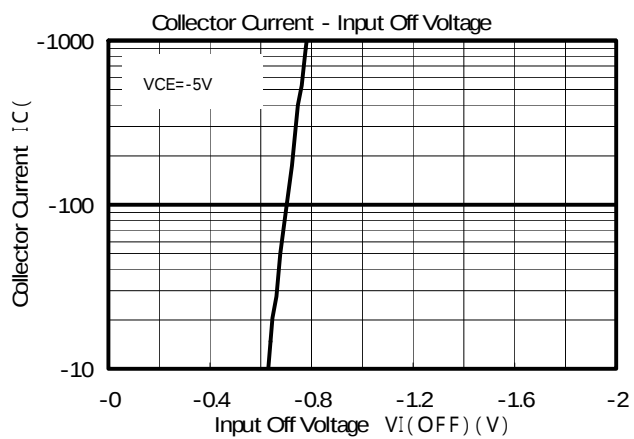
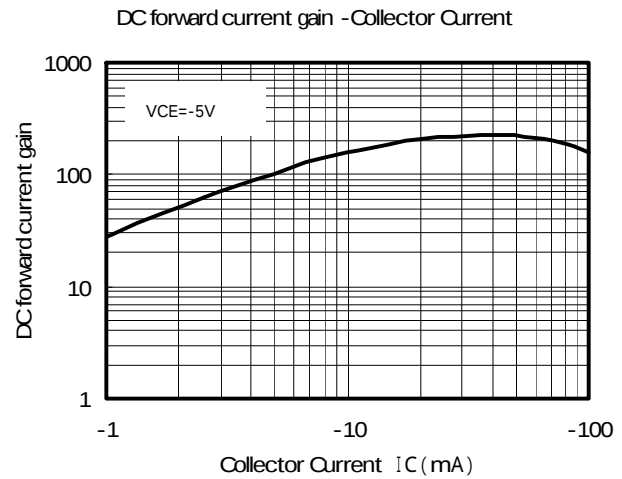
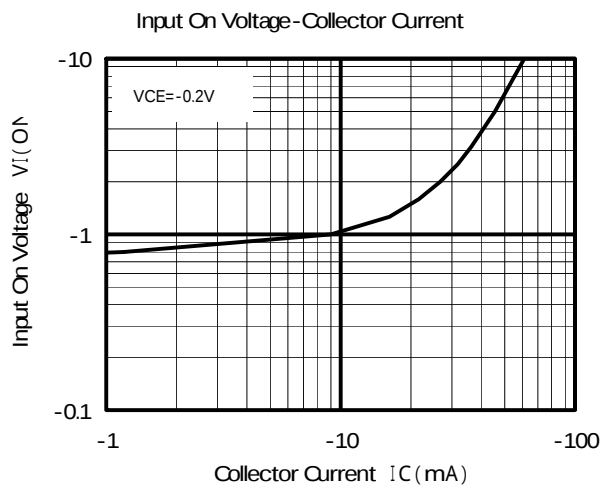
TYPICAL CHARACTERISTICS (Tr1)



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TYPICAL CHARACTERISTICS (T_r2)





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