

RT3T66M

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3T66M is composite transistor built with RT1N430 chip and RT1P430 chip in SC-88 package.

FEATURE

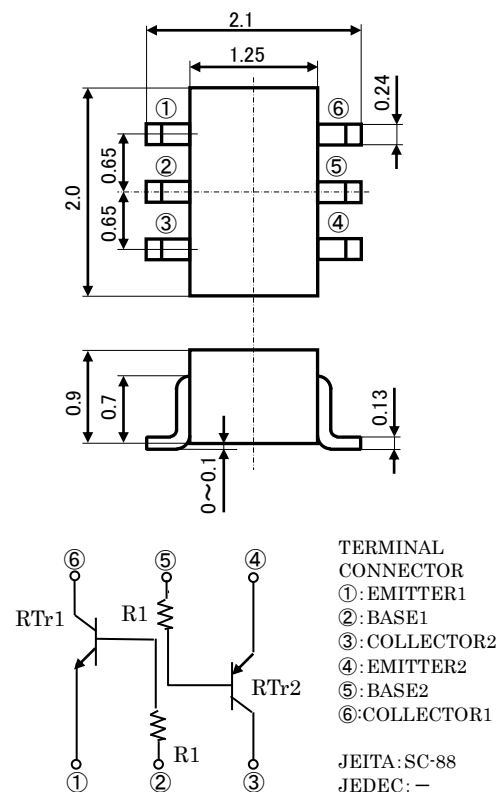
Built-in bias resistor (R1=4.7kΩ)
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit,
Interface circuit, Driver circuit

OUTLINE DRAWING

Unit:mm

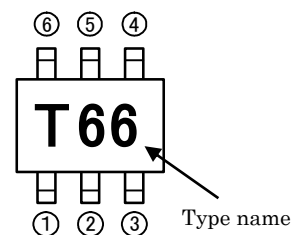


MAXIMUM RATING (Ta=25°C) (RTr1_NPN, RTr2_PNP)

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
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

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

MARKING



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

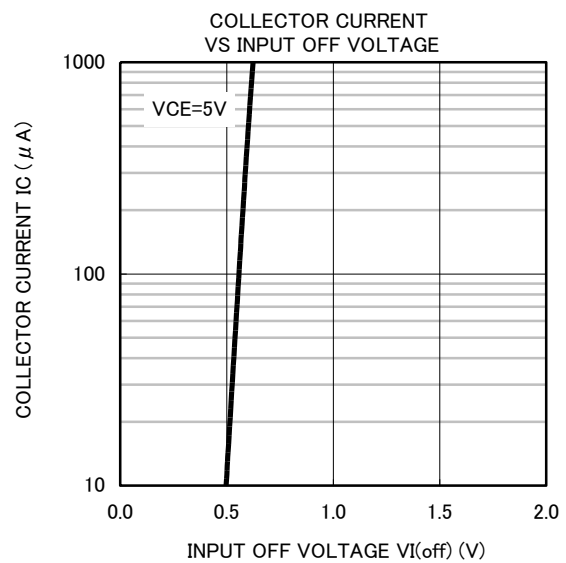
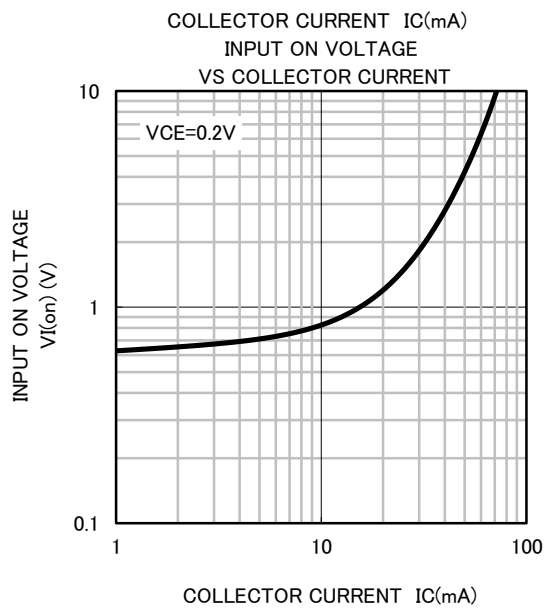
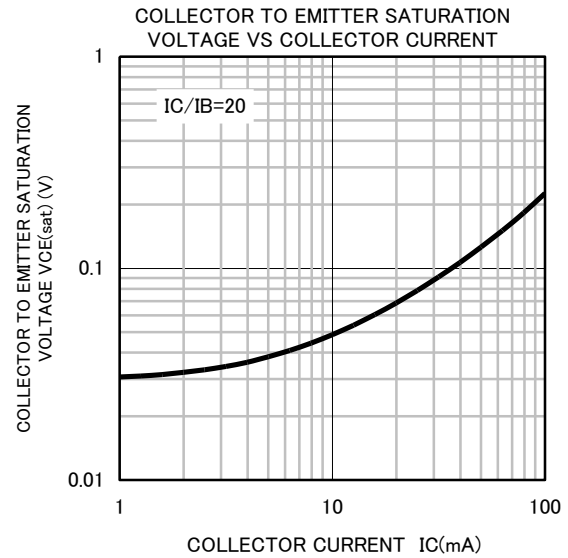
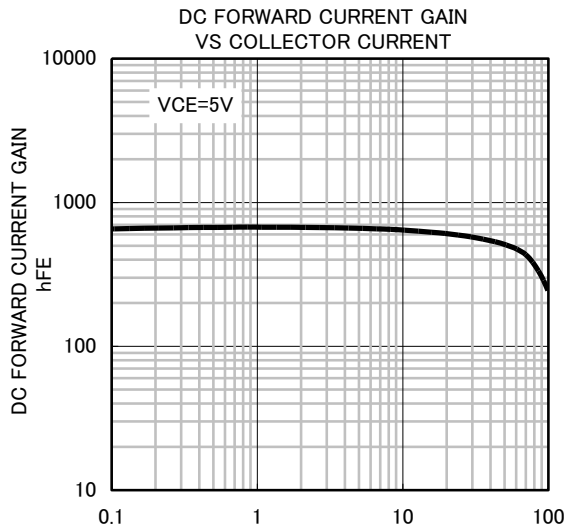
Symbol	Parameter	Test conditions	Limits			Unit	
			Min	Typ	Max		
V(BR)CEO	Collector to Emitter breakdown voltage	I _C =100 μA, R _{BE} =∞	50	—	—	V	
ICBO	Collector cut off current	V _{CB} =50V, I _E =0	—	—	0.1	μA	
IEBO	Emitter cut off current	V _{EB} =5V, I _C =0	—	—	0.1	μA	
h _{FE}	DC forward current gain	V _{CE} =5V, I _C =1mA	100	—	—	—	
V _{CE(sat)}	Collector to Emitter saturation voltage	I _C =10mA, I _B =0.5mA	—	—	0.3	V	
R ₁	Input resistor	—	3.3	4.7	6.1	kΩ	
f _T	Gain band width product	V _{CE} =6V, I _E =10mA	RTr1	—	200	—	MHz
			RTr2	—	150	—	

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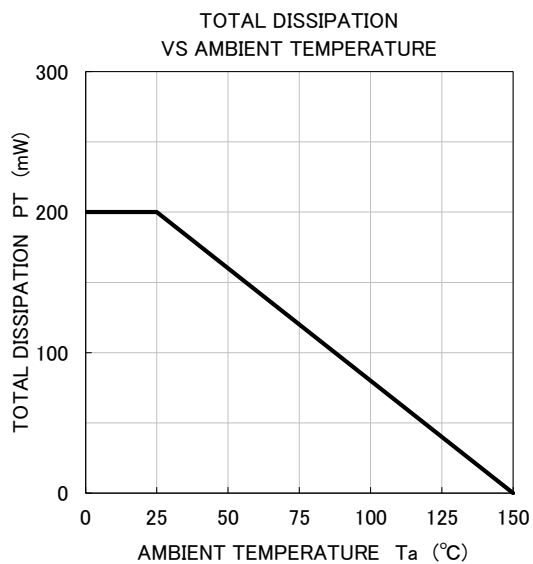
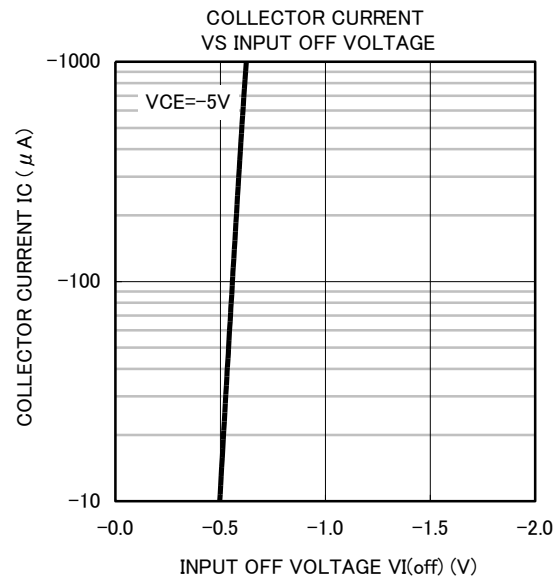
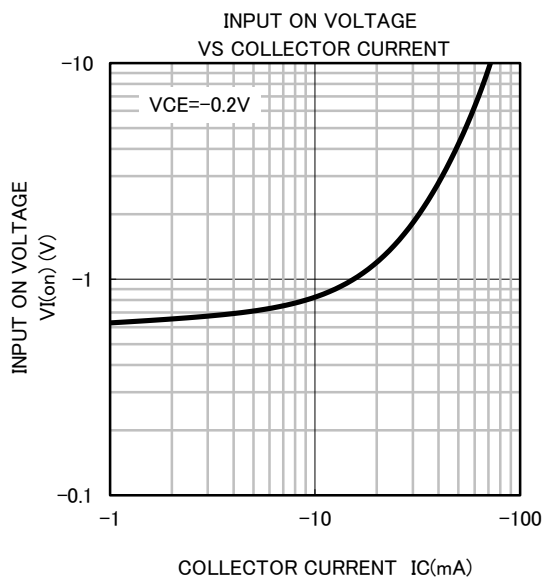
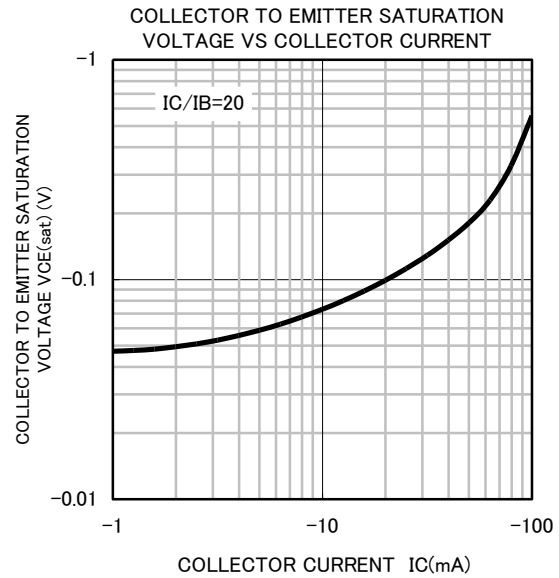
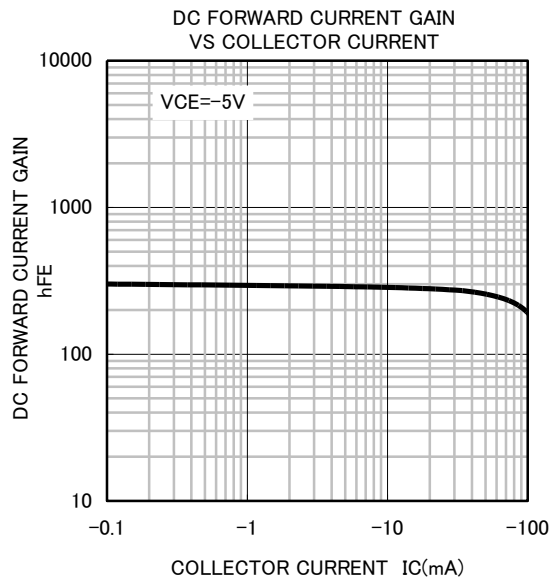
TYPICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$) (RTr1_NPN)



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TYPICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$) (RTr 2_PNP)



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