

# RT3N11M-T150

Composite Transistor With Resistor  
For Switching Application  
Silicon Epitaxial Type

AEC-Q101 Compliance

## DESCRIPTION

RT3N11M is composite transistor built with two RT1N141 chips in SC-88 package.

## FEATURE

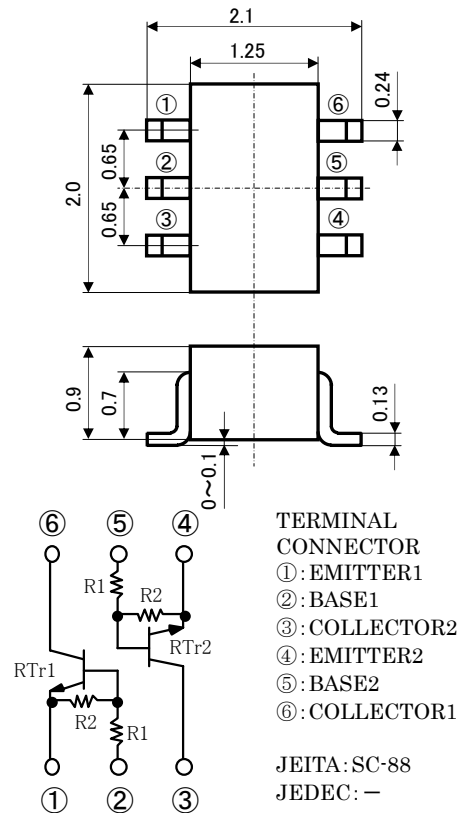
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

## APPLICATION

- Inverted circuit, Switching circuit,
- Interface circuit, Driver circuit

## OUTLINE DRAWING

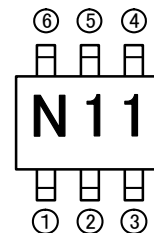
Unit: mm



## MAXIMUM RATING (Ta=25°C) (RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	RATING	UNIT
VCBO	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	10	V
VCEO	Collector to Emitter voltage	50	V
VIN	Input voltage	40	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

## MARKING



## ELECTRICAL CHARACTERISTICS (Ta=25°C) (RTr1, RTr2 COMMON)

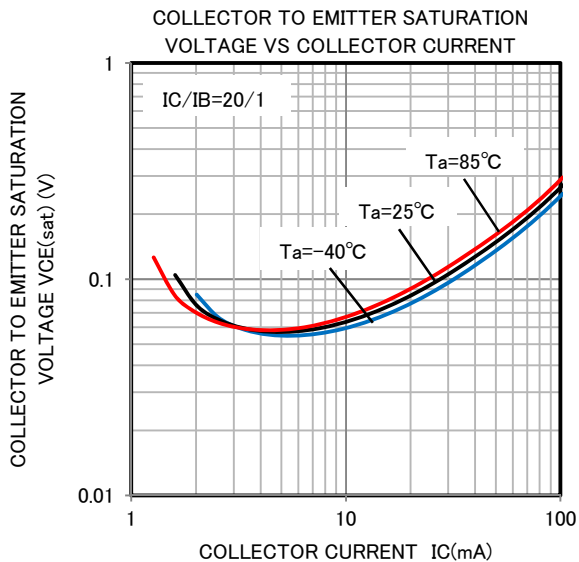
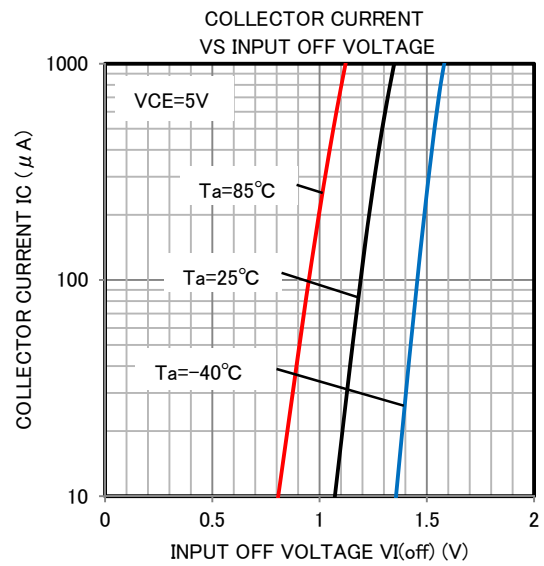
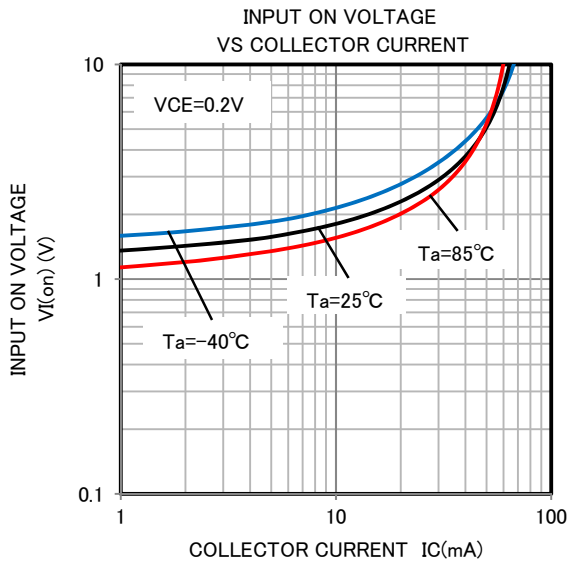
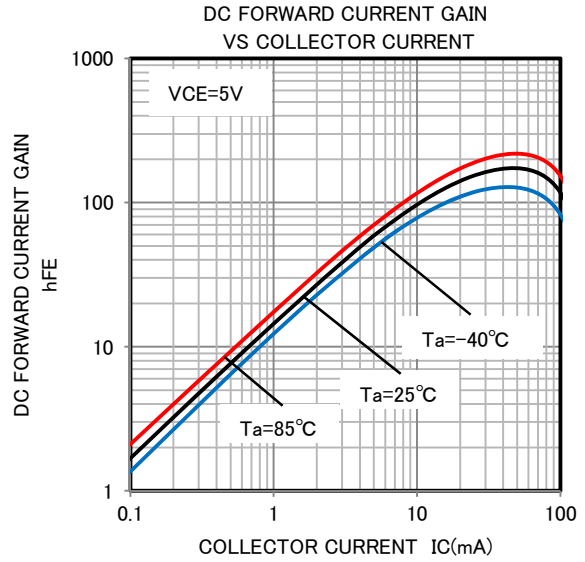
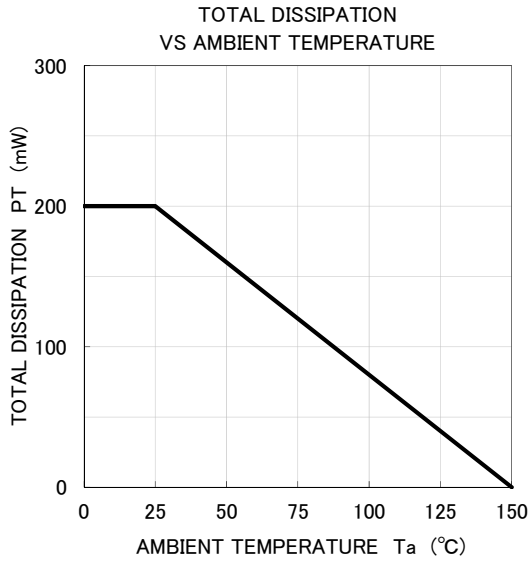
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V(BR)CEO	Collector to Emitter breakdown voltage	I <sub>C</sub> =100 μA, R <sub>BE</sub> =∞	50	-	-	V
ICBO	Collector cut off current	V <sub>CB</sub> =50V, I <sub>E</sub> =0	-	-	0.1	μA
IEBO	Emitter cut off current	V <sub>CB</sub> =5V, I <sub>C</sub> =0	192	250	357	μA
hFE	DC forward current gain	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA	50	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =0.5mA	-	0.1	0.3	V
V <sub>I(ON)</sub>	Input on voltage	V <sub>CE</sub> =0.2V, I <sub>C</sub> =5mA	-	1.5	3.0	V
V <sub>I(OFF)</sub>	Input off voltage	V <sub>CE</sub> =5V, I <sub>C</sub> =100 μA	0.8	1.1	-	V
R1	Input resistor	-	7	10	13	kΩ
R2/R1	Resistor ratio	-	0.9	1.0	1.1	-
f <sub>T</sub>	Gain band width product	V <sub>CE</sub> =6V, I <sub>E</sub> =-10mA	-	200	-	MHz

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## TYPICAL CHARACTERISTICS

(RT<sub>r1</sub>, RT<sub>r2</sub> COMMON)





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