

# RT3N11M

Compound Transistor With Resistor  
For Switching Application  
Silicon Epitaxial Type

## DESCRIPTION

RT3N11M is a compound transistor built with two RT1N141 in SC-88 package.

## FEATURE

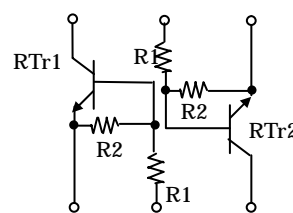
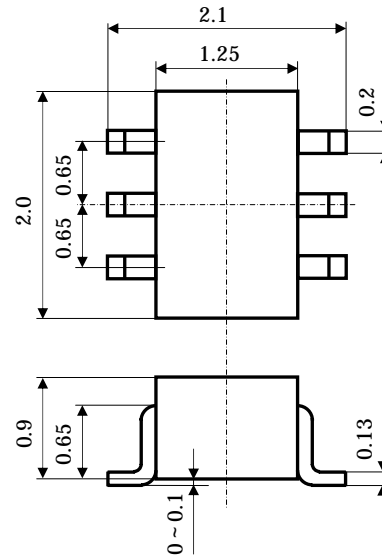
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

## APPLICATION

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

## OUTLINE DRAWING

Unit: mm



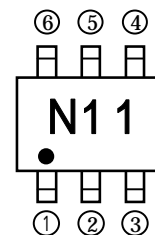
TERMINAL  
CONNECTOR  
: EMITTER1  
: BASE1  
: COLLECTOR2  
: EMITTER2  
: BASE2  
: COLLECTOR1

JEITA: SC-88

## MAXIMUM RATING (Ta=25 °C)

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
IC	Collector current	100	mA
ICM	Peak Collector current	200	mA
PC	Collector dissipation (Total, Ta=25 °C)	150	mW
Tj	Junction temperature	+ 150	
Tstg	Storage temperature	-55 ~ + 150	

## MARKING



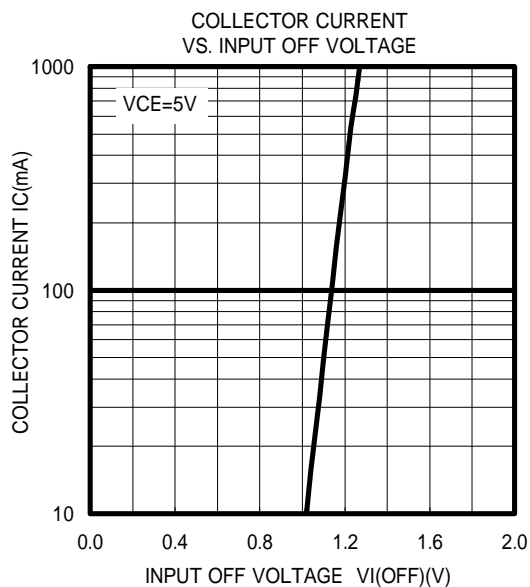
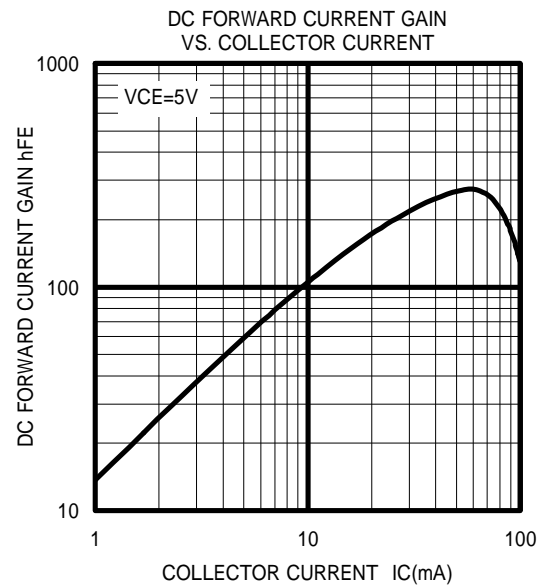
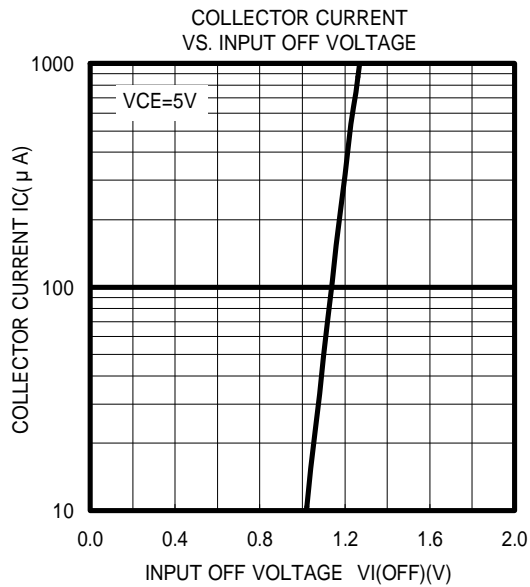
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## ELECTRICAL CHARACTERISTICS (Ta=25 )

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V <sub>(BR)CEO</sub>	Collector to Emitter break down voltage	I <sub>C</sub> =100 μA, R <sub>BE</sub> =	50	-	-	V
I <sub>CBO</sub>	Collector cut off current	V <sub>CB</sub> =50V, I <sub>E</sub> =0	-	-	0.1	μA
h <sub>FE</sub>	DC forward current gain	V <sub>CE</sub> =5V, I <sub>C</sub> =10mA	50	-	-	-
V <sub>CE(sat)</sub>	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
R <sub>1</sub>	Input resistor	-	7	10	13	k
R <sub>2</sub> /R <sub>1</sub>	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

## TYPICAL CHARACTERISTICS





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