

# RT3N66U

Composite Transistor With Resistor  
For Switching Application  
Silicon Epitaxial Type

## DESCRIPTION

RT3N66U is a composite transistor built with two RT1N430 in USM6F package.

## FEATURE

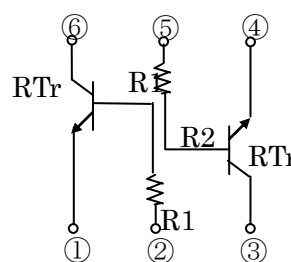
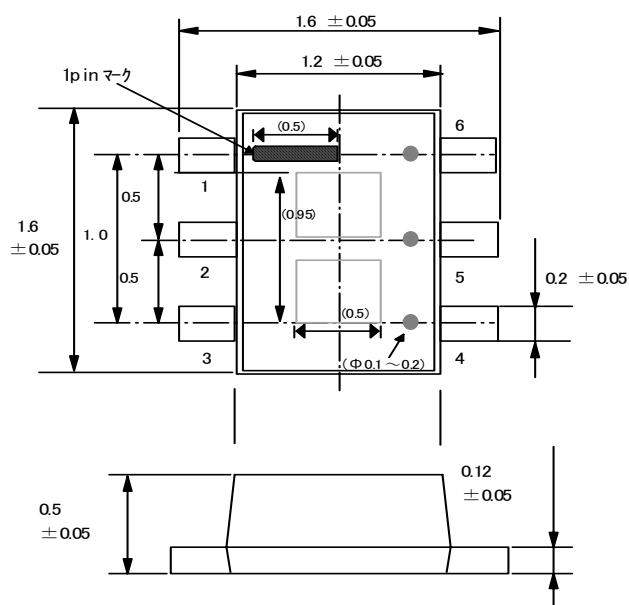
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

## APPLICATION

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

## OUTLINE DRAWING

Unit: mm



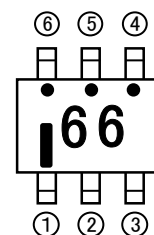
TERMINAL  
CONNECTOR  
①: EMITTER1  
②: BASE1  
③: COLLECTOR2  
④: EMITTER2  
⑤: BASE2  
⑥: COLLECTOR1

JEITA: -  
ISAHAYA: USM6F

## MAXIMUM RATING (Ta=25°C)

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
PC	Collector dissipation (Total, Ta=25°C)	125	mW
Tj	Junction temperature	+150	°C
Tstg	Storage temperature	-55 ~ +150	°C

## MARKING



# RT3N66U

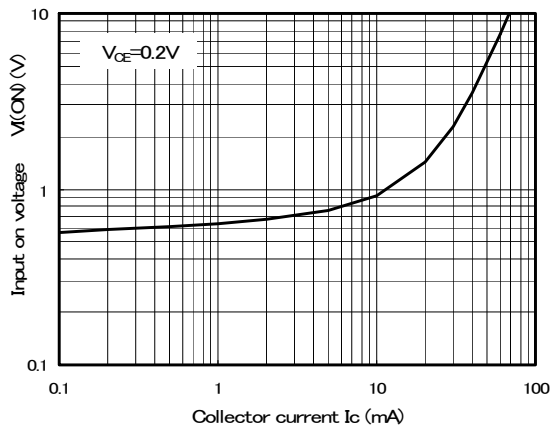
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## ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1,Tr2 common)

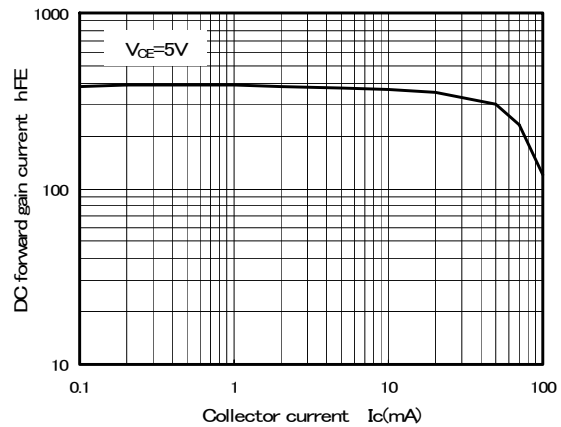
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CEO	Collector to Emitter break down voltage	IC=100 μA, RBE=∞	50	-	-	V
ICBO	Collector cut off current	VCB=50V, IE=0	-	-	0.1	μA
hFE	DC forward current gain	VCE=5V, IC=1mA	100	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	IC=10mA, IB=0.5mA	-	0.1	0.3	V
R1	Input resistor	-	3.3	4.7	6.1	kΩ
fT	Gain band width product	VCE=6V, IE=-10mA	-	200	-	MHZ

## TYPICAL CHARACTERISTICS (Tr1,Tr2 common)

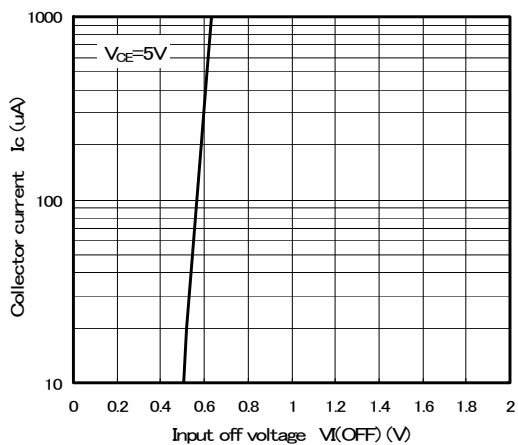
Input on voltage – Collector current



DC forward gain current – Collector current



Collector current – Input off voltage





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**Keep safety first in your circuit designs!**

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