

RT3P66U

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3P66U is a composite transistor built with two RT1P430 in USM6F package.

FEATURE

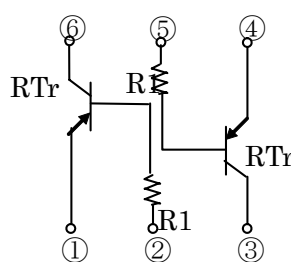
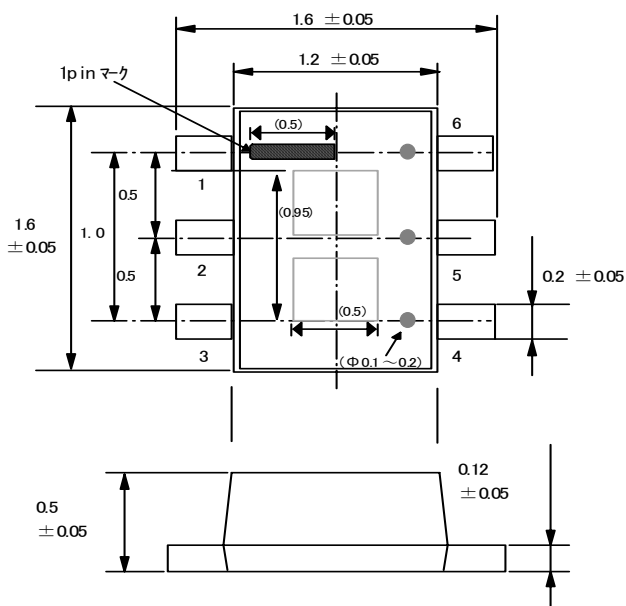
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

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

OUTLINE DRAWING

Unit: mm



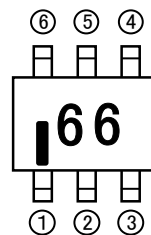
TERMINAL
CONNECTOR
①: EMITTER1
②: BASE1
③: COLLECTOR2
④: EMITTER2
⑤: BASE2
⑥: COLLECTOR1

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



RT3P66U

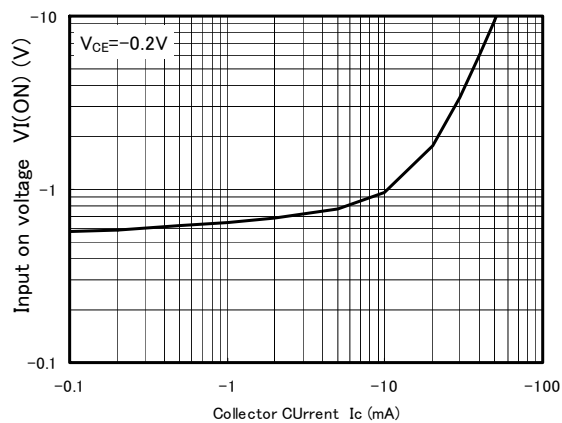
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ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1,Tr2 common)

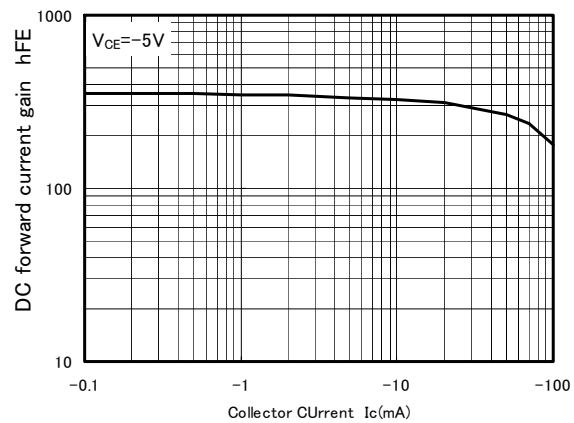
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V(BR)CEO	Collector to Emitter break down voltage	$I_C = -100 \mu A, R_{BE} = \infty$	-50			V
ICBO	Collector cut off current	$V_{CB} = -50V, I_E = 0$			-0.1	μA
hFE	DC forward current gain	$V_{CE} = -5V, I_C = -1mA$	100			-
VCE(sat)	Collector to Emitter saturation voltage	$I_C = -10mA, I_B = -0.5mA$		-0.1	-0.3	V
R1	Input resistor		3.3	4.7	6.1	k Ω
fT	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		150		MHZ

TYPICAL CHARACTERISTICS (Tr1,Tr2 common)

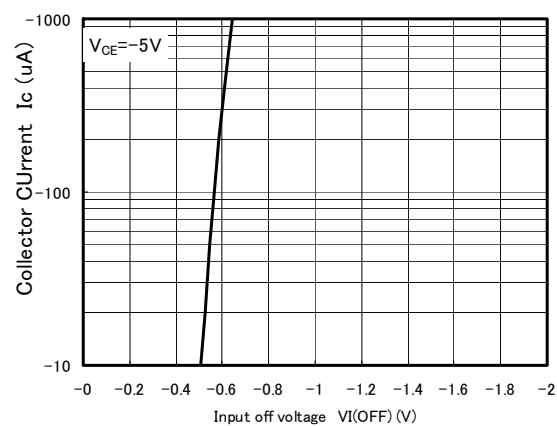
Input on voltage-Collector CUrrent



DC forward current gain -Collector CUrrent



Collector CUrrent-Input off voltage





Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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