

RT3NUUM

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3NUUM is composite transistor built with two RT1N14B chips in SC-88 package.

FEATURE

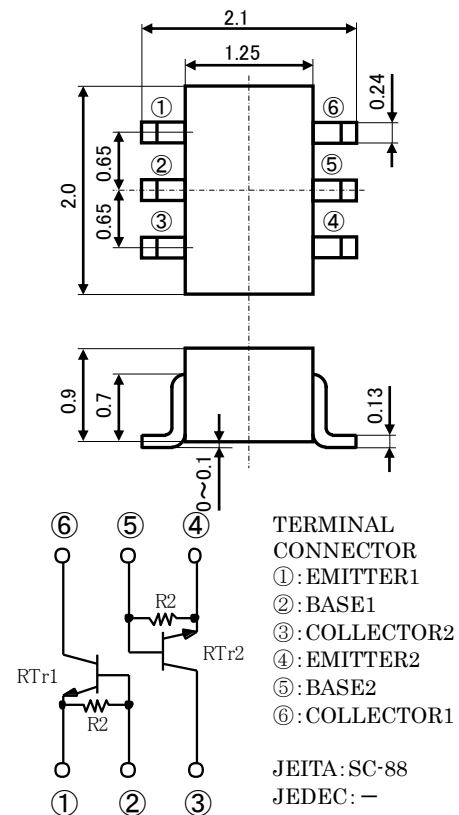
Built-in bias resistor ($R_2=10k\Omega$)
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit,
Interface circuit, Driver circuit

OUTLINE DRAWING

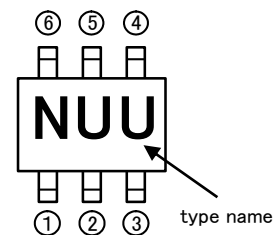
Unit:mm



MAXIMUM RATING($T_a=25^\circ\text{C}$)(RTTr1, RTTr2 COMMON)

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

MARKING



ELECTRICAL CHARACTERISTICS($T_a=25^\circ\text{C}$)(RTTr1, RTTr2 COMMON)

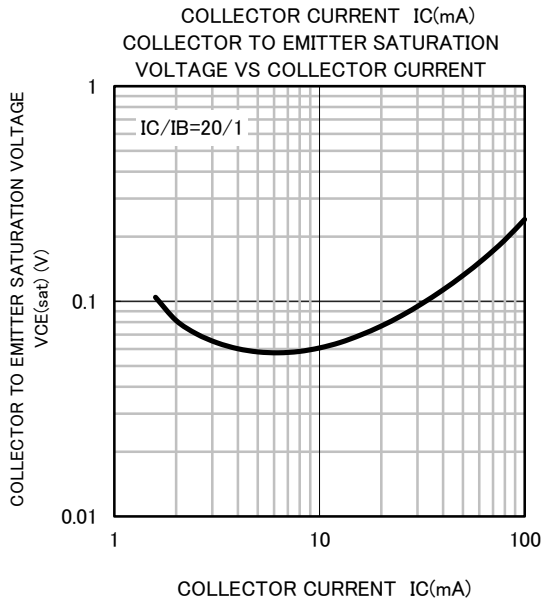
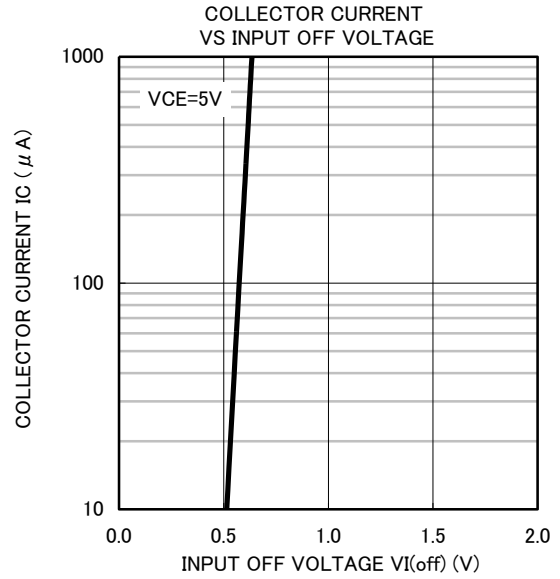
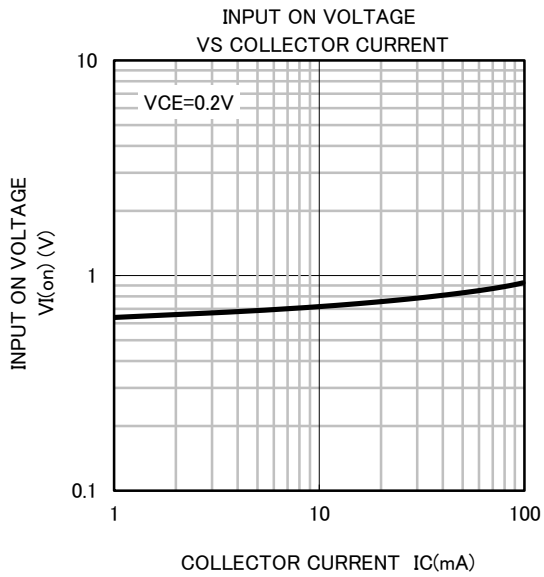
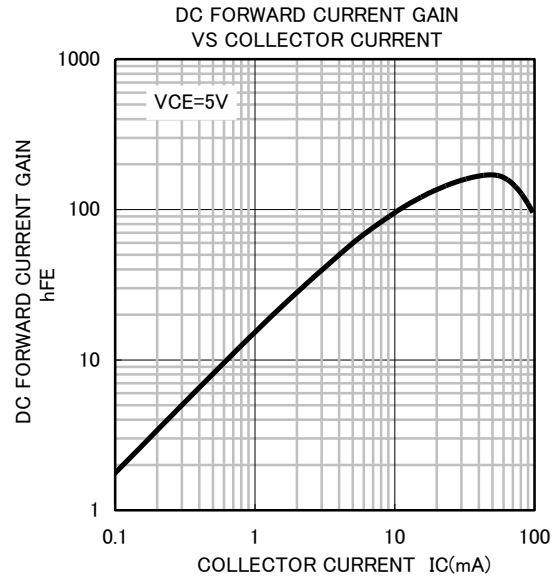
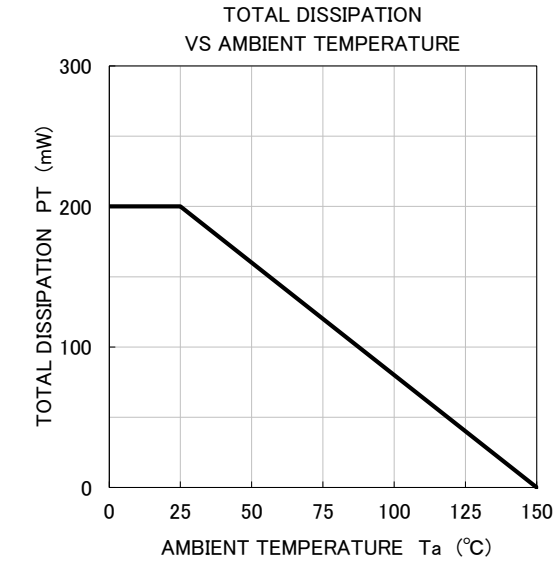
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V(BR)CEO	Collector to Emitter breakdown voltage	$I_C=100\mu\text{A}$, $R_{BE}=\infty$	50	-	-	V
ICBO	Collector cut off current	$V_{CB}=50\text{V}$, $I_E=0$	-	-	0.1	μA
IEBO	Emitter cut off current	$V_{EB}=5\text{V}$, $I_C=0$	375	500	725	μA
hFE	DC forward current gain	$V_{CE}=5\text{V}$, $I_C=5\text{mA}$	30	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	$I_C=10\text{mA}$, $I_B=0.5\text{mA}$	-	-	0.3	V
R ₂	Emitter to Base resistor	-	7	10	13	k Ω
f _T	Gain band width product	$V_{CE}=6\text{V}$, $I_E=-10\text{mA}$	-	200	-	MHz

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TYPICAL CHARACTERISTICS

($T_a=25^\circ\text{C}$)(RTr1,RTr2 COMMON)



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