

RT3NEEM-T150

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

AEC-Q101 Compliance

DESCRIPTION

RT3NEEM is composite transistor built with two RT1N234 chips in SC-88 package.

FEATURE

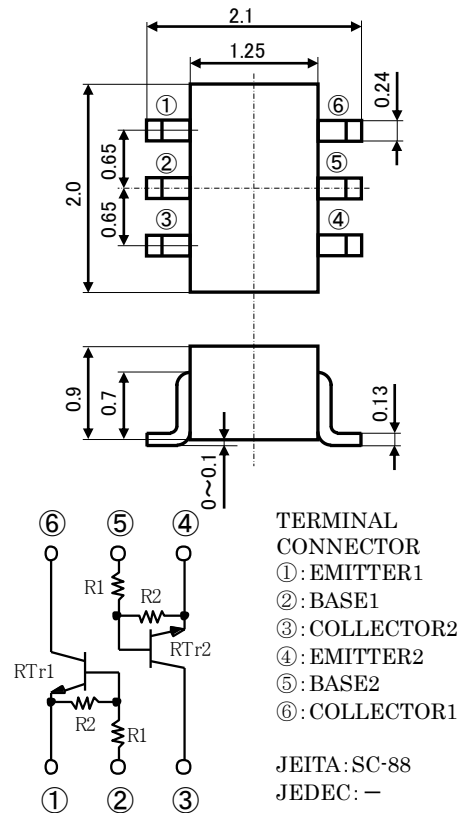
Built-in bias resistor (R1=2.2k Ω , R2=10k Ω)
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit,
Interface circuit, Driver circuit

OUTLINE DRAWING

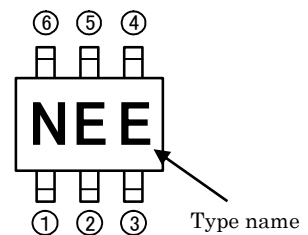
Unit:mm



MAXIMUM RATING(T_a=25°C)(RT_{Tr1}, RT_{Tr2} COMMON)

SYMBOL	PARAMETER	RATING	UNIT
V _{CB0}	Collector to Base voltage	50	V
V _{EBO}	Emitter to Base voltage	6	V
V _{CEO}	Collector to Emitter voltage	50	V
V _{IN}	Input voltage	12	V
I _C	Collector current	100	mA
I _{CM}	Peak Collector current	200	mA
P _T	Total dissipation	200	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

MARKING



ELECTRICAL CHARACTERISTICS(T_a=25°C)(RT_{Tr1}, RT_{Tr2} COMMON)

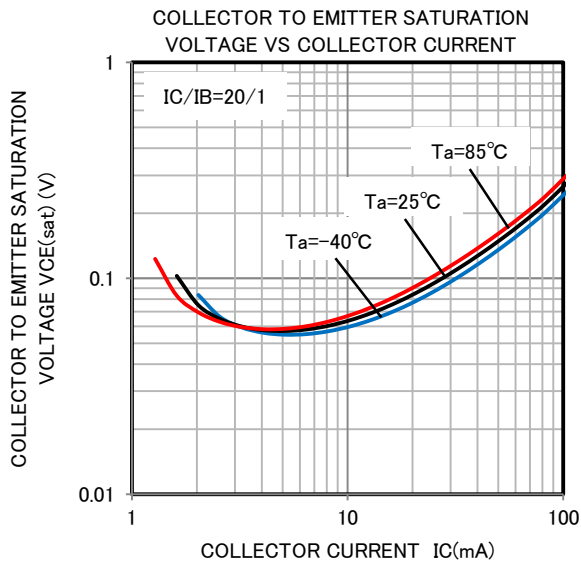
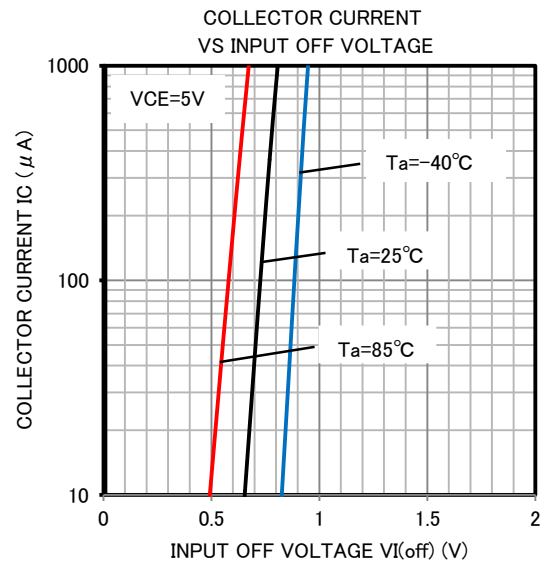
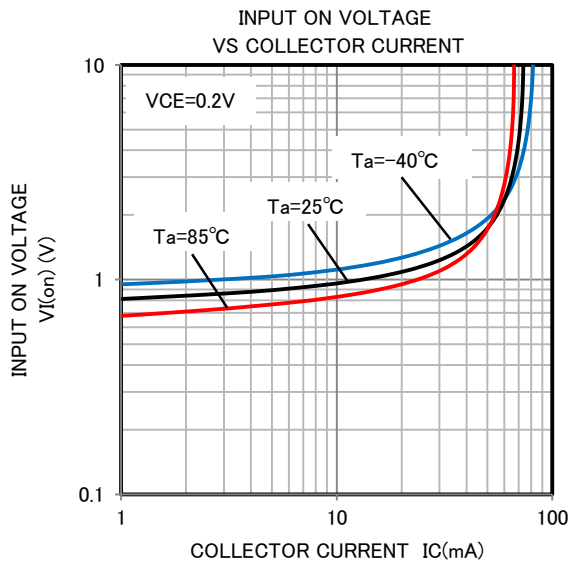
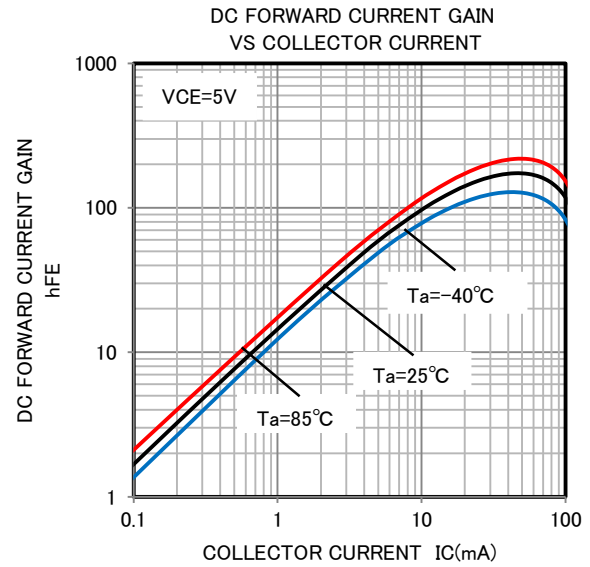
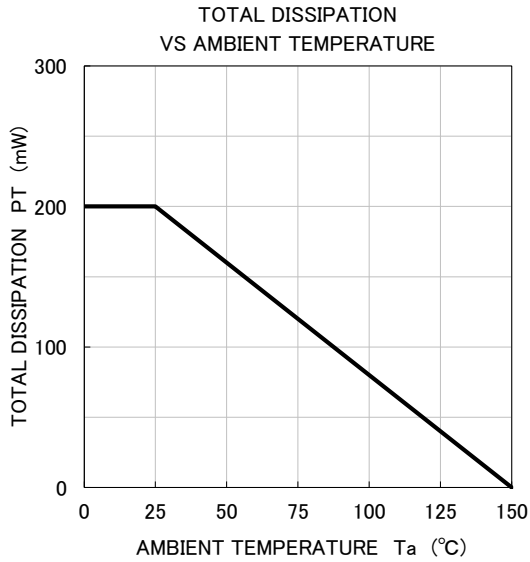
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V _{(BR)CEO}	Collector to Emitter breakdown voltage	I _C =100 μ A, R _{BE} = ∞	50	-	-	V
I _{CB0}	Collector cut off current	V _{CB} =50V, I _E =0	-	-	0.1	μ A
I _{EBO}	Emitter cut off current	V _{EB} =5V, I _C =0	307	410	594	μ A
h _{FE}	DC forward current gain	V _{CE} =5V, I _C =10mA	33	-	-	-
V _{CE(sat)}	Collector to Emitter saturation voltage	I _C =10mA, I _B =0.5mA	-	0.1	0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =0.2V, I _C =5mA	-	0.8	1.4	V
V _{I(OFF)}	Input off voltage	V _{CE} =5V, I _C =100 μ A	0.5	0.7	-	V
R ₁	Input resistor	-	1.5	2.2	2.9	k Ω
R ₂ /R ₁	Resistor ratio	-	3.8	4.7	5.6	-
f _T	Gain band width product	V _{CE} =6V, I _E =10mA	-	200	-	MHz

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TYPICAL CHARACTERISTICS

(RT_{r1}, RT_{r2} COMMON)



Keep safety first in your circuit designs!

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