

RT1N430M-T150

Transistor With Resistor
For Switching Application
Silicon NPN Epitaxial Type

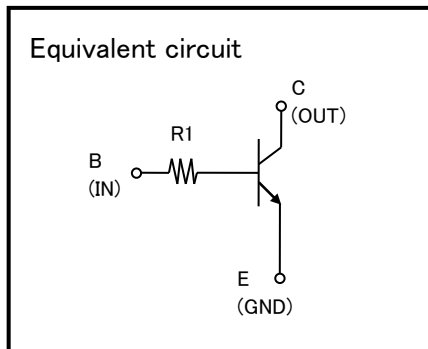
AEC-Q101 Compliance

FEATURE

- Built-in bias resistor (R1=4.7kΩ)
- Mini package for easy mounting

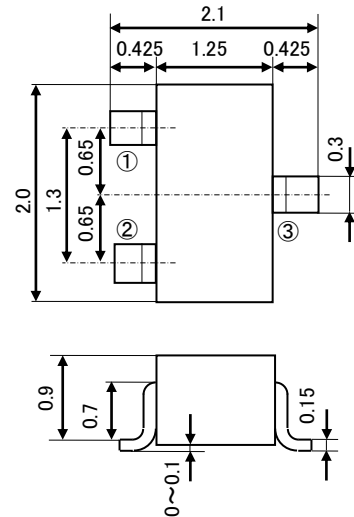
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.



OUTLINE DRAWING

UNIT : mm



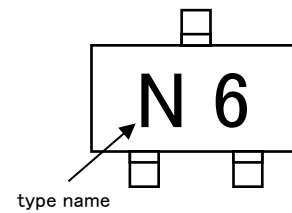
Terminal
Connector

- ① : Base JEITA : SC-70
② : Emitter JEDEC : -
③ : Collector

MAXIMUM RATING (Ta=25°C)

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
I _C	Collector current	100	mA
I _{CM}	Peak Collector current	200	mA
P _C	Collector dissipation	200	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55~+150	°C

MARKING



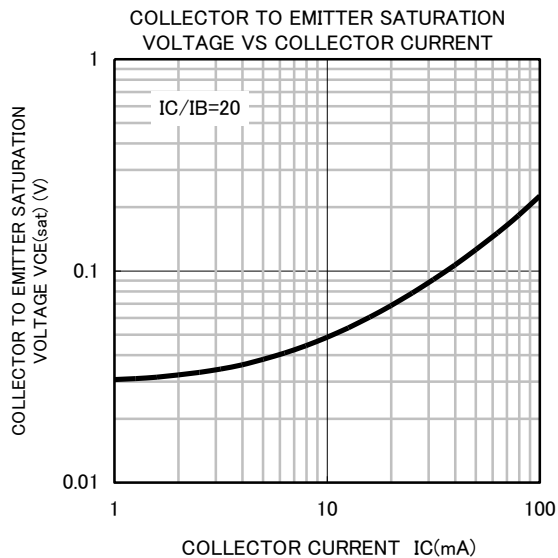
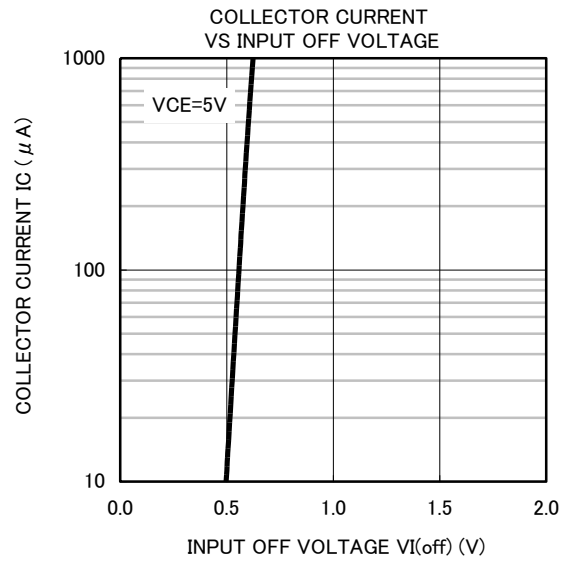
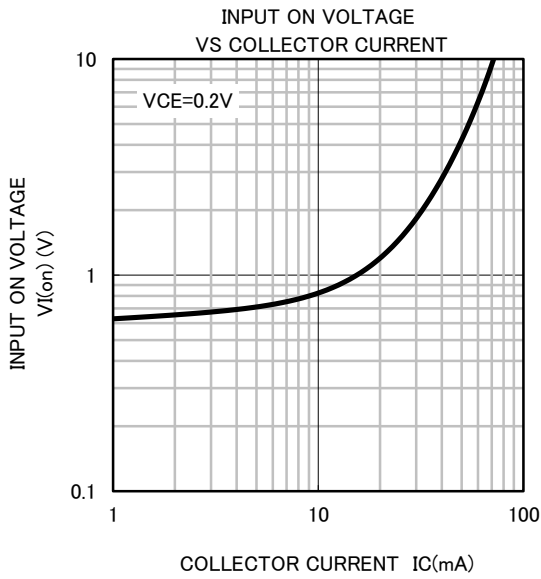
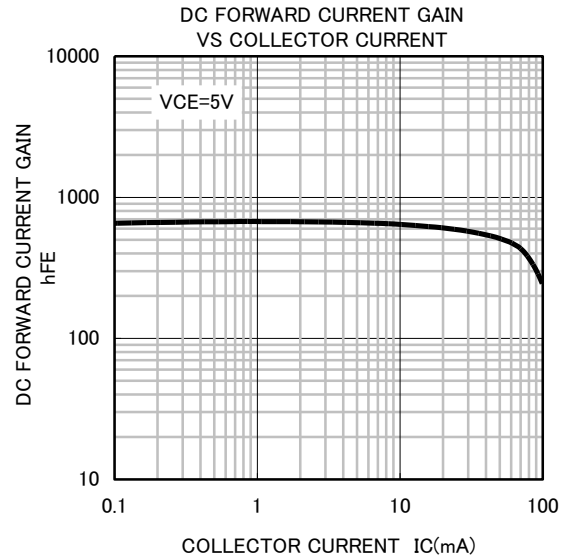
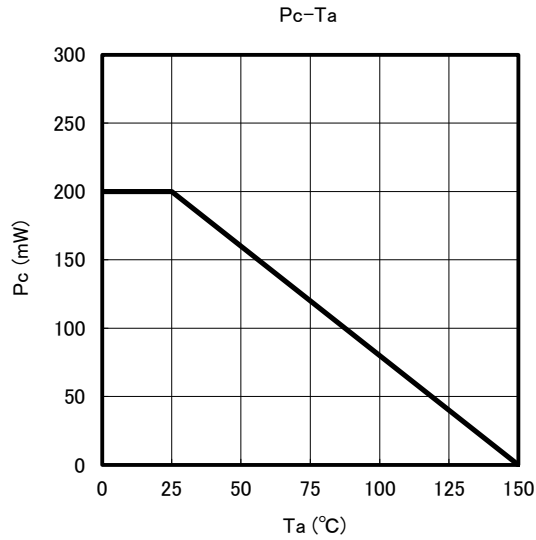
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
V _{(BR)CEO}	C to E breakdown voltage	I _C =100 μA, R _{BE} =∞	50	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0	-	-	0.1	μA
I _{EBO}	Emitter cut off current	V _{EB} =5V, I _C =0	-	-	0.1	μA
h _{FE}	DC forward current gain	V _{CE} =5V, I _C =1mA	100	-	-	-
V _{CE(sat)}	C to E saturation voltage	I _C =10mA, I _B =0.5mA	-	0.1	0.3	V
R1	Input resistor	-	3.3	4.7	6.1	kΩ
f _T	Gain band width product	V _{CE} =6V, I _E =-10mA	-	200	-	MHz

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TYPICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)



Keep safety first in your circuit designs!

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