RT1N250X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon NPN Epitaxial Type

DESCRIPTION

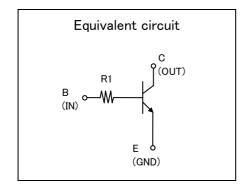
RT1N250X is a one chip transistor with built-in bias resistor,PNP type is RT1P250X.

FEATURE

•Built-in bias resistor (R1=200k Ω).

APPLICATION

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

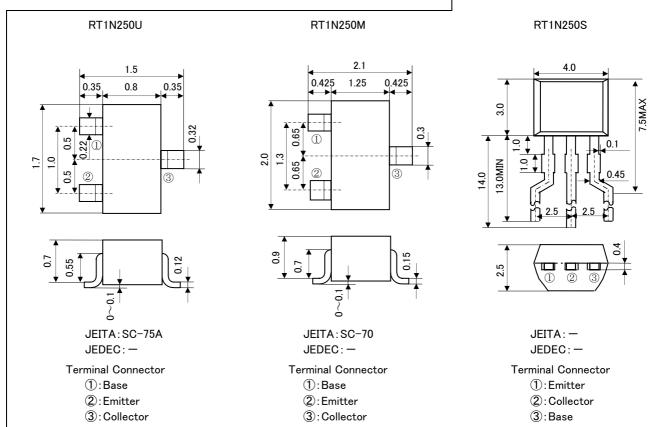


OUTLINE DRAWING UNIT: mm RT1N250C 2.8 0.65 1.5 0.65 3 JEITA: SC-59 JEDEC: Similar to TO-236

Terminal Connector

①:Base
②:Emitter

3: Collector

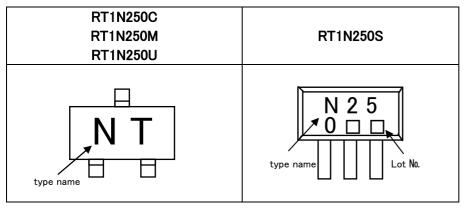


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1N250U	RT1N250M	RT1N250C	RT1N250S	UNIT
V _{CBO}	Collector to Base voltage	50				
V_{EBO}	Emitter to Base voltage	6				
V_{CEO}	Collector to Emitter voltage	50				
Ιc	Collector current	100				
I _{CM}	Peak Collector current	200				
P _C	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150				
Tstg	Storage temperature	−55 ~ +150				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

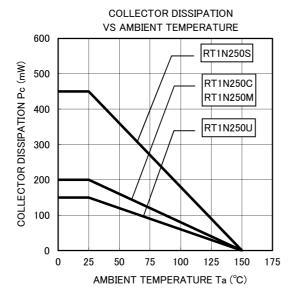
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	OINLI
$V_{(BR)CEO}$	C to E break down voltage	I _C =100 μ A, R _{BE} =∞	50	1	_	V
I _{CBO}	Collector cut off current	V_{CB} =50V, I $_{E}$ =0	1	ı	0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =5V, I $_{C}$ =0	_	_	0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =1mA	100	1	_	_
$V_{CE(sat)}$	C to E saturation voltage	I_{C} =0.5mA, I_{B} =0.05mA	1	ı	0.3	V
R ₁	Input resistor	_	140	200	260	kΩ
f_{T}	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	_	200	_	MHz

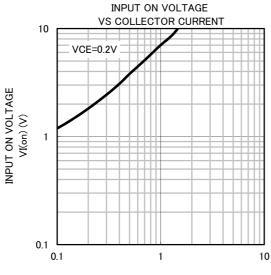
RT1N250X SERIES

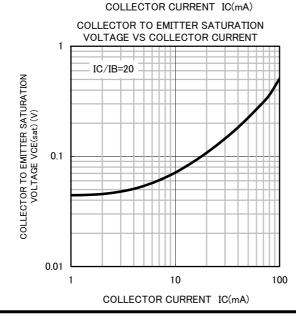
(Transistor)

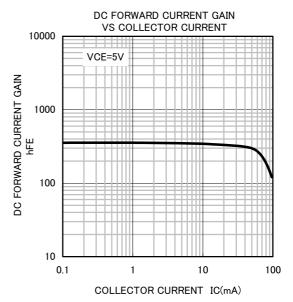
Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

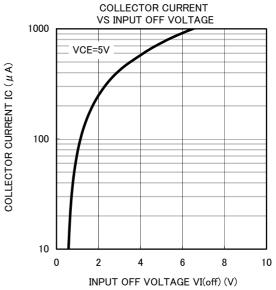
TYPICAL CHARACTERISTICS (Ta=25°C)













Keep safety first in your circuit designs!

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