RT1P250X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

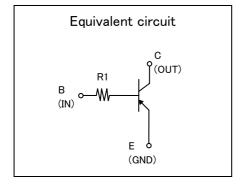
RT1P250X is a one chip transistor with built-in bias resistor,NPN type is RT1N250X.

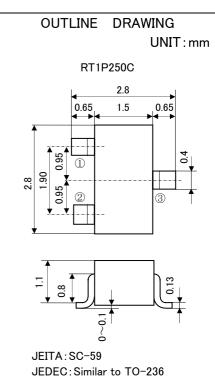
FEATURE

•Built-in bias resistor (R1=200k Ω).

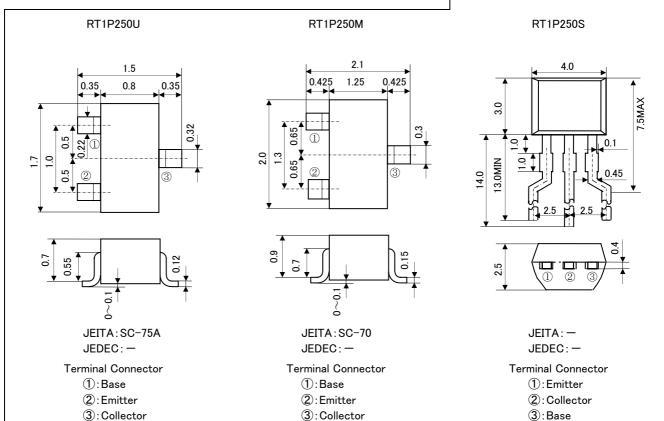
APPLICATION

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





Terminal Connector
①:Base
②:Emitter
③:Collector

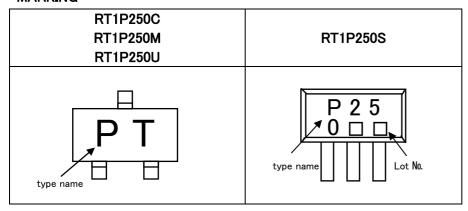


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1P250U	RT1P250M	RT1P250C	RT1P250S	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				
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150				°C
Tstg	Storage temperature	−55 ~ +150				°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

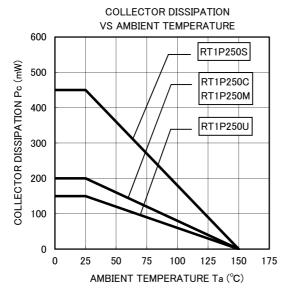
CVMPOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
SYMBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50	1	_	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0	1	ı	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I $_{C}$ =0	_	_	-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I _C =-1mA	100	_	_	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -0.5 \text{mA}, I_{B} = -0.05 \text{mA}$	_	_	-0.3	V
R ₁	Input resistor	_	140	200	260	kΩ
f⊤	Gain band width product	V_{CE} =-6V, I _E =10mA	_	150	_	MHz

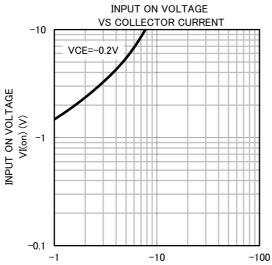
RT1P250X SERIES

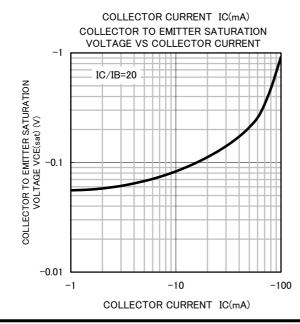
(Transistor)

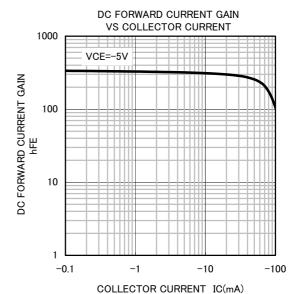
Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

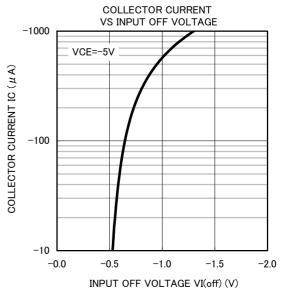
TYPICAL CHARACTERISTICS (Ta=25°C)













Keep safety first in your circuit designs!

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