RT1P234X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

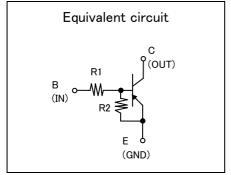
RT1P234X is a one chip transistor with built-in bias resistor,NPN type is RT1N234X.

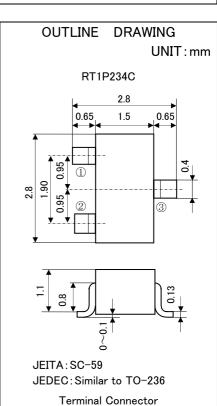
FEATURE

•Built-in bias resistor (R1=2.2k Ω ,R2=10k Ω).

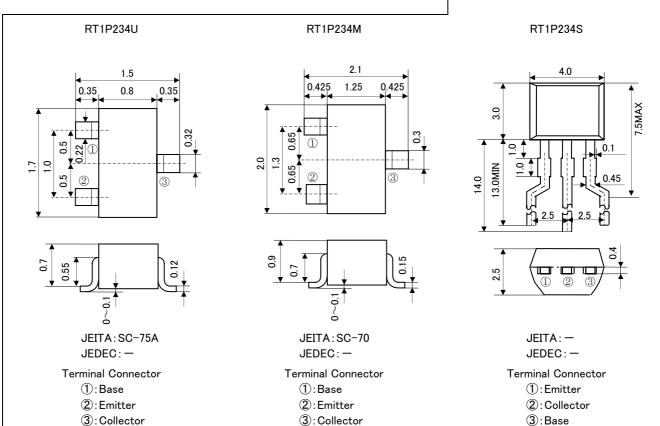
APPLICATION

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





①:Base ②:Emitter ③:Collector

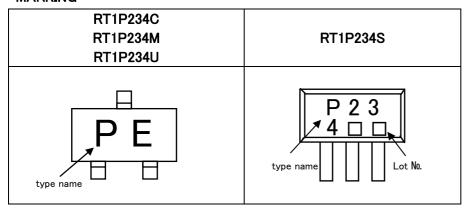


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1P234U	RT1P234M	RT1P234C	RT1P234S	UNIT
V _{CBO}	Collector to Base voltage	-50				
V_{EBO}	Emitter to Base voltage	-6				
V_{CEO}	Collector to Emitter voltage	-50				
V_{IN}	Input voltage	-12				
Ic	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				°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

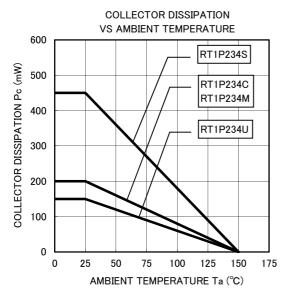
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWIBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50	_	1	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0	_	_	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I $_{C}$ =0	-307	-410	-594	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I $_{C}$ =-10mA	33	_	1	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$	1	-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V, I $_{C}$ =-5mA	1	-0.8	-1.4	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V, I $_{C}$ =-100 μ A	-0.5	-0.7	ı	V
R ₁	Input resistor	_	1.5	2.2	2.9	kΩ
R ₂ /R ₁	Resistor ratio	_	3.8	4.7	5.6	_
f_T	Gain band width product	V_{CE} =-6V, I _E =10mA	_	150	_	MHz

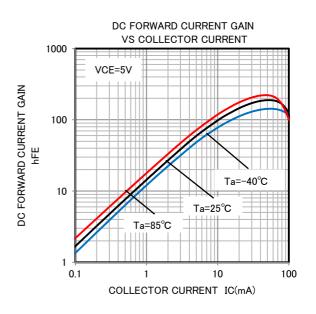
RT1P234X SERIES

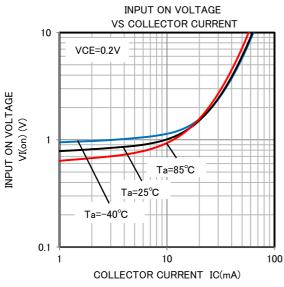
(Transistor)

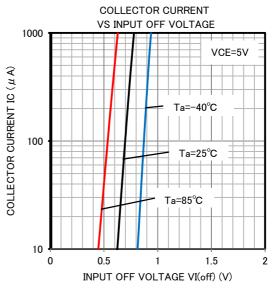
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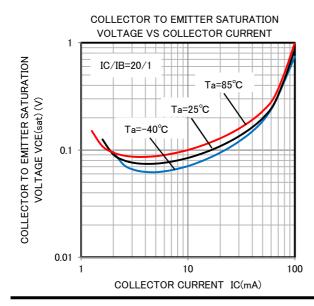
TYPICAL CHARACTERISTICS













Keep safety first in your circuit designs!

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