RT1P234X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

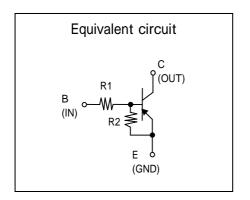
RT1P234X is a one chip transistor with built-in bias resistor,NPN type is RT1N234X.

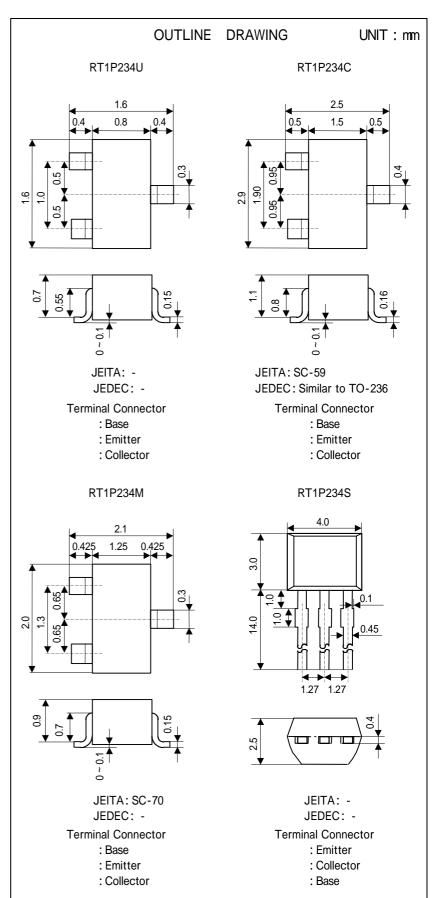
FEATURE

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

APPLICATION

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





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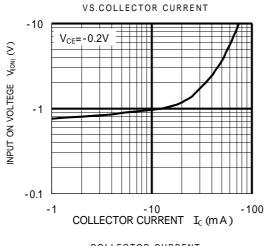
MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1P234U	RT1P234M	RT1P234C	RT1P234S	UNIT
V _{CBO}	Collector to Base voltage	-50				V
V_{EBO}	Emitter to Base voltage	-6				V
V_{CEO}	Collector to Emitter voltage	-50				V
Ι _c	Collector current	-100				mA
I _{CM}	Peak Collector current	-200				mA
P _c	Collector dissipation(Ta=25)	150	20	00	450	mW
Tj	Junction temperature	+150	+150 +150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ + 150			

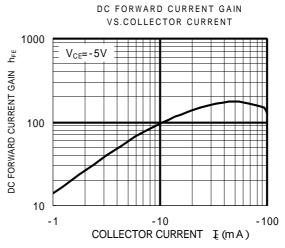
ELECTRICAL CHARACTERISTICS (Ta=25)

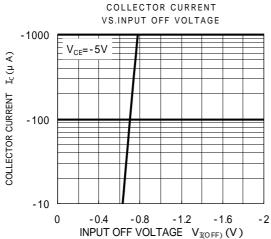
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A$, $R_{BE}=$	-50			V
I _{CBO}	Collector cut off current	V_{CB} =-50V , I_{E} =0			-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V , I $_{C}$ =-10mA	33			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -10 \text{mA}$, $I_B = -0.5 \text{mA}$		-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 resistance		1.5	2.2	2.9	k
R_2/R_1	Resistance ratio		3.8	4.7	5.6	
f _⊤	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$		150		MHz

TYPICAL CHARACTERISTICS



INPUT ON VOLTAGE







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