RT1P230X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

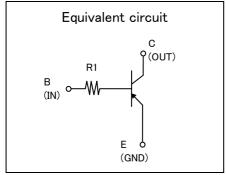
RT1P230X is a one chip transistor with built-in bias resistor,NPN type is RT1N230X.

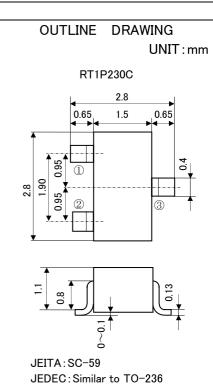
FEATURE

•Built-in bias resistor (R1=2.2k Ω).

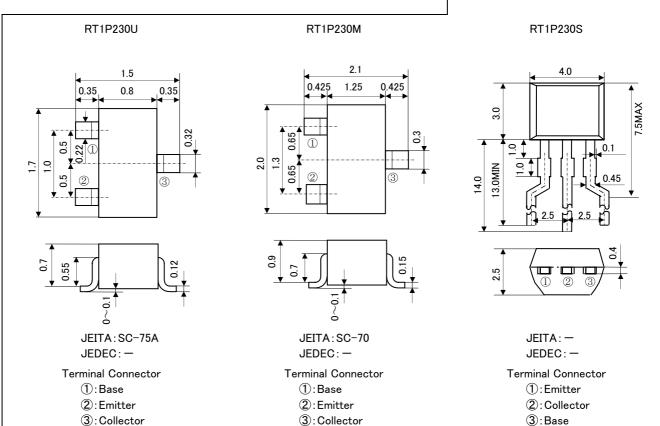
APPLICATION

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





Terminal Connector
①:Base
②:Emitter
③:Collector

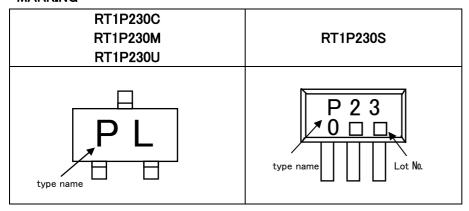


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1P230U	RT1P230M	RT1P230C	RT1P230S	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)

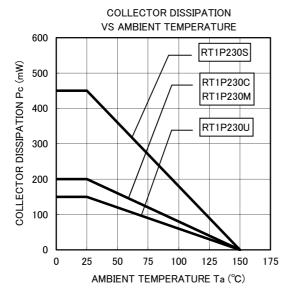
CVMPOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
SYMBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =-100 μ A, R _{BE} =∞	-50	1	_	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I $_{E}$ =0	l	ı	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I $_{C}$ =0	1	_	-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I_{C} =-1mA	100	_	_	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10$ mA, $I_{B} = -0.5$ mA	_	-0.1	-0.3	V
R ₁	Input resistor	_	1.5	2.2	2.9	kΩ
f _⊤	Gain band width product	V_{CE} =-6V, I_{E} =10mA	_	150	_	MHz

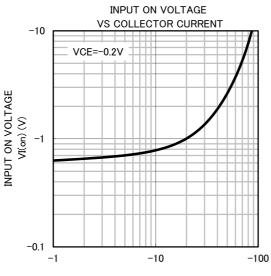
RT1P230X SERIES

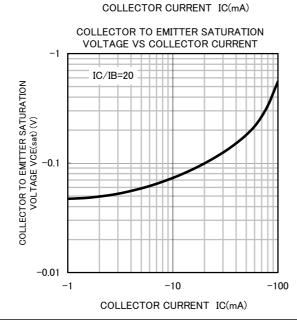
(Transistor)

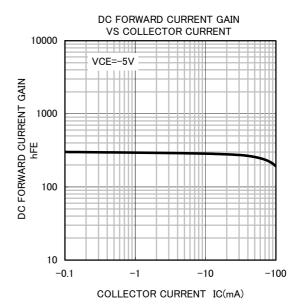
Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

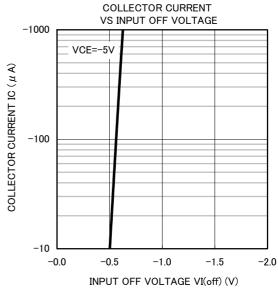
TYPICAL CHARACTERISTICS (Ta=25°C)













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