RT1P14BX SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

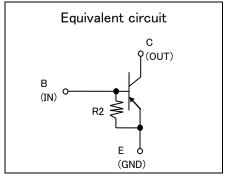
RT1P14BX is a one chip transistor with built-in bias resistor, NPN type is RT1N14BX.

FEATURE

•Built-in bias resistor (R2=10k Ω).

APPLICATION

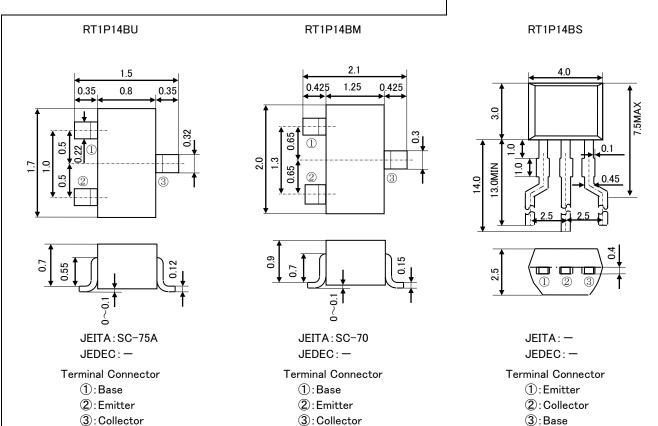
Inverted circuit, switching circuit, interface circuit, driver circuit.



OUTLINE DRAWING UNIT:mm RT1P14BC 2.8 0.65 1.5 0.65 1.5 0.65 JEITA: SC-59

JEDEC: Similar to TO-236

Terminal Connector
①: Base
②: Emitter
③: Collector

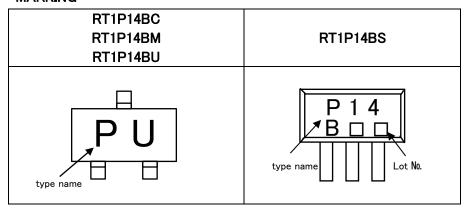


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1P14BU	RT1P14BM	RT1P14BC	RT1P14BS	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				
Tstg	Storage temperature	−55 ~ +150				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

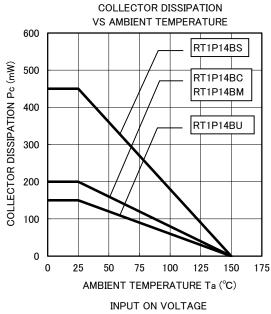
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWIBUL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =-100 μ A, R _{BE} = ∞	-50	_	_	V
I _{CBO}	Collector cut off current	V_{CB} =-50V, I _E =0	_	_	-0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =-5V, I $_{C}$ =0	-375	-500	-725	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V, I _C =-5mA	30	_	_	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -10 \text{mA}, I_{B} = -0.5 \text{mA}$	_	_	-0.3	٧
R ₂	Emitter-base resistor	_	7	10	13	kΩ
f⊤	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$	_	150	_	MHz

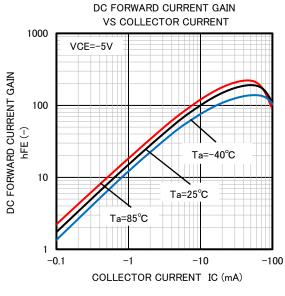
RT1P14BX SERIES

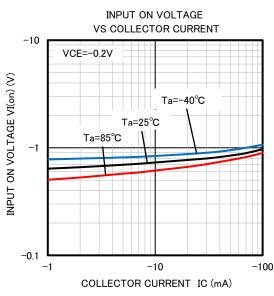
⟨Transistor⟩

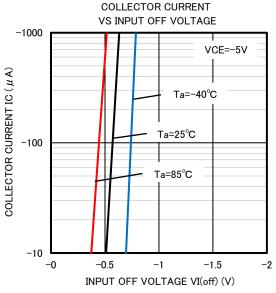
Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

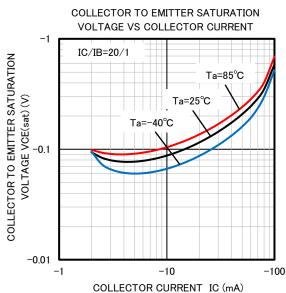
TYPICAL CHARACTERISTICS











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