RT1P14BX SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

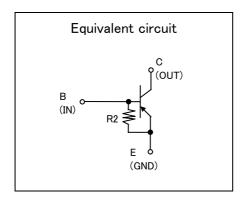
RT1P14BX is a one chip transistor with built-in bias resistor,NPN type is RT1N14BX.

FEATURE

•Built-in bias resistor (R2=10k Ω).

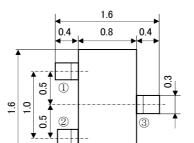
APPLICATION

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

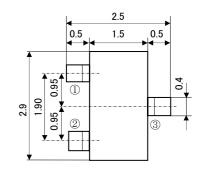


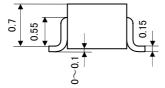
OUTLINE DRAWING

RT1P14BC



RT1P14BU







Terminal Connector

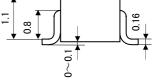
- ①:Base
- 2: Emitter

JEITA: -

JEDEC: -

3: Collector

RT1P14BM

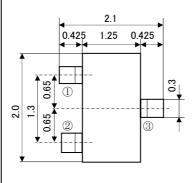


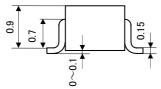
JEDEC: Similar to TO-236

Terminal Connector

- ①:Base
- 2: Emitter
- 3: Collector

RT1P14BS

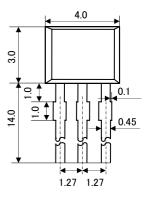


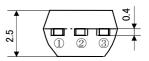


JEITA: SC-70 JEDEC: —

Terminal Connector

- 1:Base
- 2: Emitter
- 3: Collector





JEITA : — JEDEC : —

Terminal Connector

- \bigcirc : Emitter
- 2: Collector
- ③:Base

RT1P14BX SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

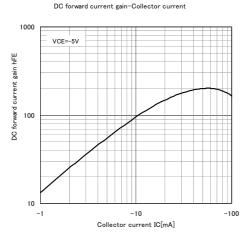
MAXIMUM RATING (Ta=25°C)

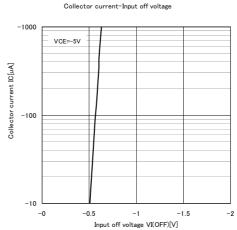
SYMBOL	PARAMETER	RATING				LINIT
		RT1P14BU	RT1P14BM	RT1P14BC	RT1P14BS	UNIT
V _{CBO}	Collector to Base voltage	-50				
V_{EBO}	Emitter to Base voltage	-6				
V_{CEO}	Collector to Emitter voltage	-50				
Ιc	Collector current	-100				
I _{CM}	Peak Collector current	-200				
P_{c}	Collector dissipation(Ta=25°C)	150	20	0	450	mW
Tj	Junction temperature	+150 +150			°C	
Tstg	Storage temperature	−55 ~ +150	−55 ~ +150			°C

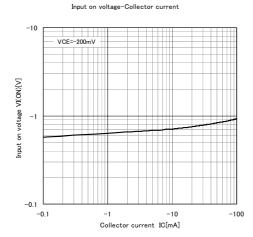
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A, R_{BE}=\infty$	-50			٧
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 =-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 resistance		7	10	13	kΩ
f _⊤	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$		150		MHz

TYPICAL CHARACTERISTICS









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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