RT1N14BX SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

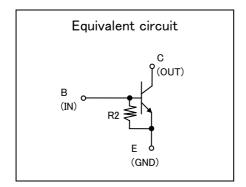
RT1N14BX is one chip transistor with built-in bias resistor, PNP type is RT1P14BX.

FEATURE

*Built-in bias resistor (R2=10k Ω).

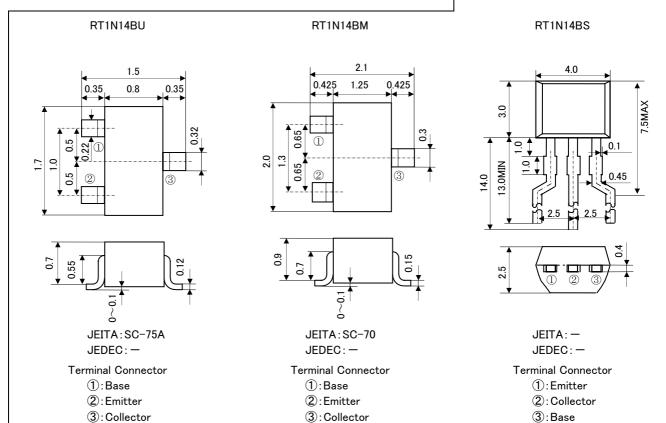
APPLICATION

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



OUTLINE DRAWING UNIT:mm RT1N14BC 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

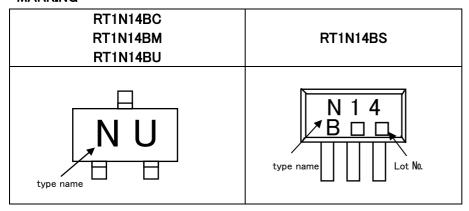


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1N14BU	RT1N14BM	RT1N14BC	RT1N14BS	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)

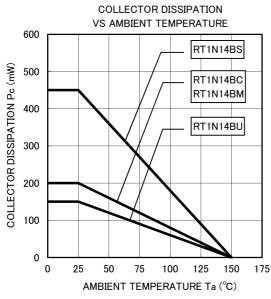
CVMPOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
SYMBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =100 μ A, R _{BE} =∞	50	_	1	V
I _{CBO}	Collector cut off current	V_{CB} =50V, I $_{E}$ =0	l	ı	0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =5V, I $_{C}$ =0	375	500	725	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =5mA	30	_	_	_
$V_{CE(sat)}$	C to E saturation voltage	$I_C = 10$ mA, $I_B = 0.5$ mA	_	_	0.3	٧
R_2	Emitter-base resistor	_	7	10	13	kΩ
f⊤	Gain band width product	V_{CE} =6V, I_{E} =-10mA	_	200	_	MHz

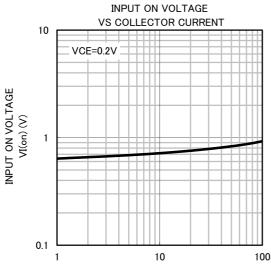
RT1N14BX SERIES

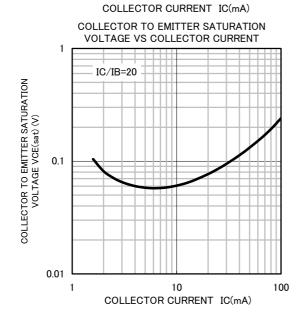
(Transistor)

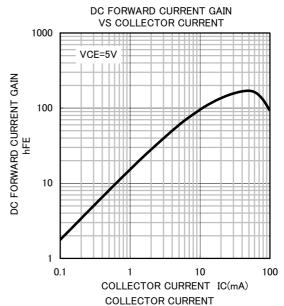
Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

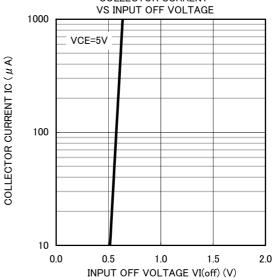
TYPICAL CHARACTERISTICS (Ta=25°C)













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