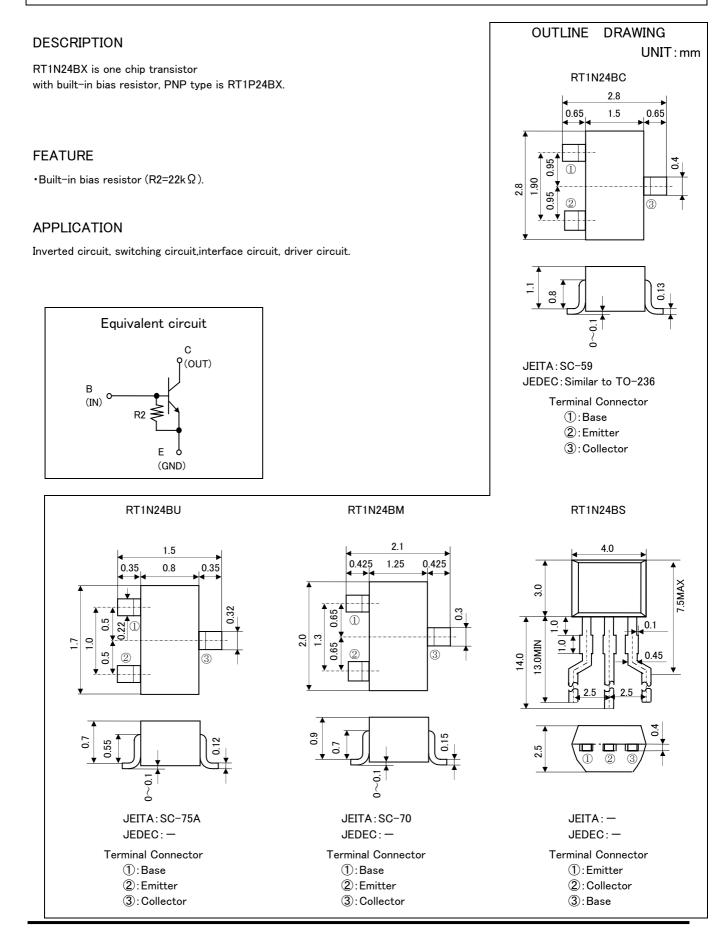
RT1N24BX SERIES

(Transistor)

Transistor With Resistor For Switching Application

Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N24BX SERIES

MARKING

RT1N24BC RT1N24BM RT1N24BU	RT1N24BS
Type name	type name Lot No.

MAXIMUM RATING (Ta=25°C)

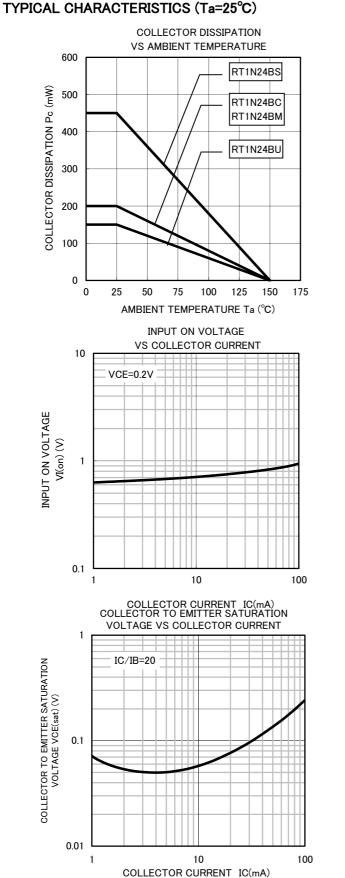
SYMBOL	PARAMETER	RATING				
		RT1N24BU	RT1N24BM	RT1N24BC	RT1N24BS	UNIT
V _{CBO}	Collector to Base voltage	50				V
V _{EBO}	Emitter to Base voltage	6				V
V _{CEO}	Collector to Emitter voltage	50				V
Ι _c	Collector current	100				mA
I _{CM}	Peak Collector current	200			mA	
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150			°C	
Tstg	Storage temperature	-55~+150			°C	

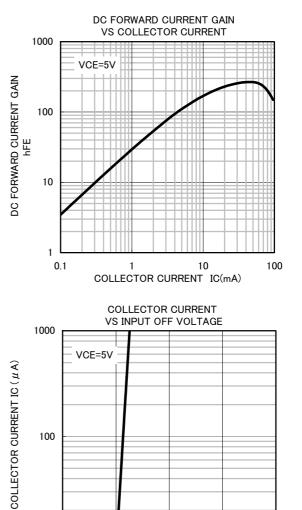
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	—		V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0	-	—	0.1	μA
I _{EBO}	Emitter cut off current	V_{EB} =5V, I _c =0	170	227	330	μA
h _{FE}	DC forward current gain	V_{ce} =5V, I _c =5mA	56	—		_
V _{CE(sat)}	C to E saturation voltage	I _c =10mA, I _B =0.5mA	-	—	0.3	V
R ₂	Emitter-base resistor	—	15	22	29	kΩ
f⊤	Gain band width product	V _{CE} =6V, I _E =-10mA	-	200		MHz

RT1N24BX SERIES

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type





ISAHAYA ELECTRONICS CORPORATION

10

0.0

0.5

1.0

INPUT OFF VOLTAGE VI(off) (V)

1.5

2.0

(Transistor)

ISAHAYA ELECTRONICS CORPORATION

Keep safety first in your circuit designs!

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