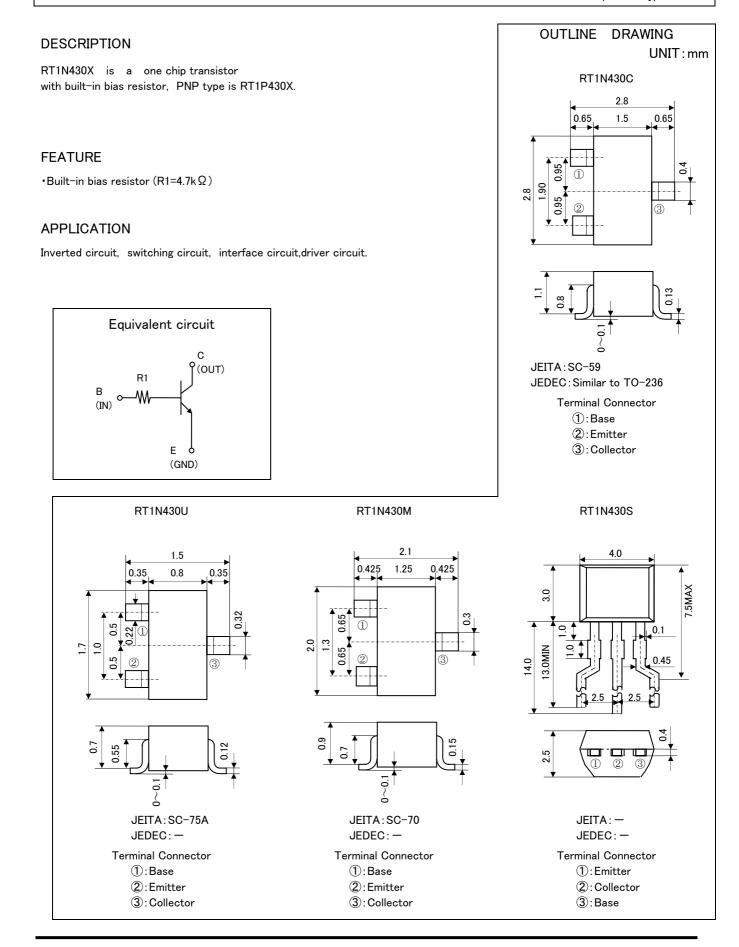
RT1N430X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N430X SERIES

〈Transistor〉 Transistor With Resistor

For Switching Application Silicon NPN Epitaxial Type

MARKING

RT1N430C RT1N430M RT1N430U	RT1N430S
N 6	type name Lot No.

MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				
		RT1N430U	RT1N430M	RT1N430C	RT1N430S	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)

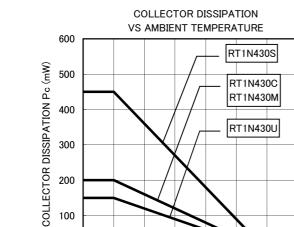
SYMBOL PARAMETER	TEST CONDITION	LIMIT			UNIT	
	PARAMETER	TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{c}=100 \mu$ A, $R_{BE}=\infty$	50	-		V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0	_	-	0.1	μA
I _{EBO}	Emitter cut off current	V_{EB} =5V, I _c =0	-	-	0.1	μA
h _{FE}	DC forward current gain	V_{ce} =5V, I _c =1mA	100	-		—
V _{CE(sat)}	C to E saturation voltage	I _c =10mA, I _B =0.5mA	_	0.1	0.3	V
R ₁	Input resistor	—	3.3	4.7	6.1	kΩ
f⊤	Gain band width product	V _{CE} =6V, I _E =-10mA	_	200		MHz

RT1N430X SERIES

(Transistor) Transistor With Resistor

For Switching Application

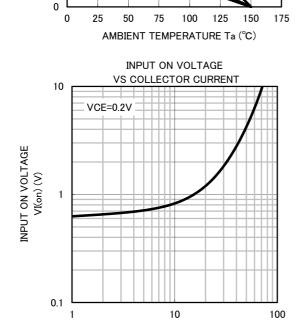
Silicon NPN Epitaxial Type



200

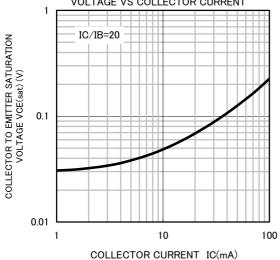
100

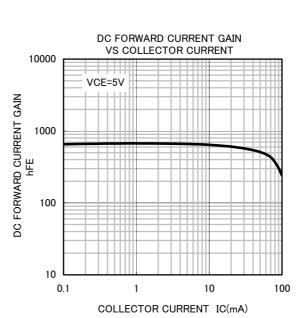
TYPICAL CHARACTERISTICS (Ta=25°C)



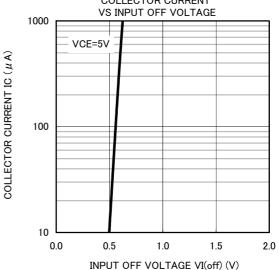
COLLECTOR CURRENT IC(mA)







COLLECTOR CURRENT



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