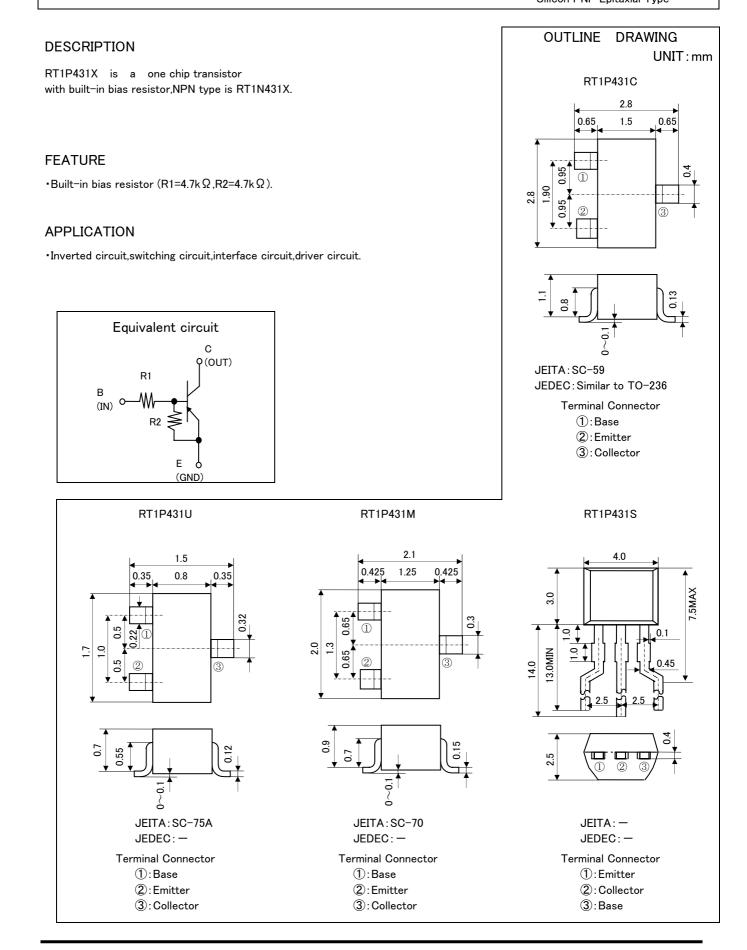
RT1P431X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1P431X SERIES

〈Transistor〉 Transistor With Resistor For Switching Application

Silicon PNP Epitaxial Type

MARKING

RT1P431C RT1P431M RT1P431U	RT1P431S
PF type name	type name Lot No.

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1P431U	RT1P431M	RT1P431C	RT1P431S	UNIT
V _{CBO}	Collector to Base voltage	-50				V
V _{EBO}	Emitter to Base voltage	-10				V
V _{CEO}	Collector to Emitter voltage	-50				V
V _{IN}	Input voltage	-30				V
I _c	Collector current	-100				mA
I _{CM}	Peak Collector current	-200				mA
Pc	Collector dissipation(Ta=25°C)	150	20	0	450	mW
Tj	Junction temperature	+150				°C
Tstg	Storage temperature	-55~+150				٦°

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL PARAMETER	DADAMETED	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	-399	-532	-771	μA
h _{FE}	DC forward current gain	V _{CE} =-5V, I _c =-10mA	20	1	—	—
$V_{CE(sat)}$	C to E saturation voltage	I _c =–10mA, I _B =–0.5mA	—	-0.1	-0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =-0.2V, I _C =-5mA	—	-1.4	-2.3	V
$V_{I(OFF)}$	Input off voltage	V_{ce} =-5V, I _c =-100 μ A	-0.8	-1.1	—	V
R ₁	Input resistor	-	3.3	4.7	6.1	kΩ
R_2 / R_1	Resistor ratio	_	0.8	1.0	1.2	—
f⊤	Gain band width product	V _{CE} =-6V, I _E =10mA	—	150	_	MHz

RT1P431X SERIES

(Transistor) Transistor With Resistor

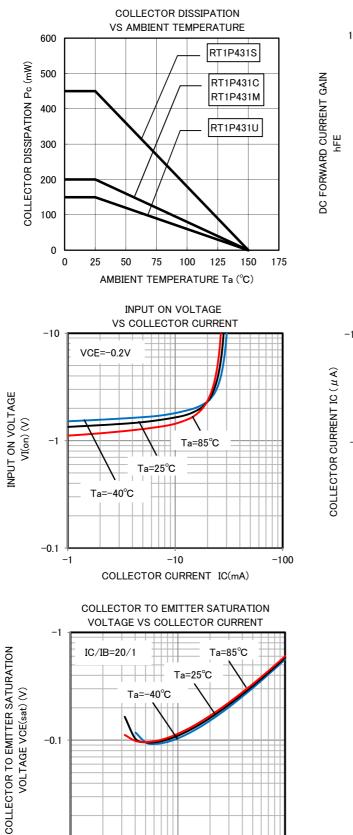
For Switching Application

Silicon PNP Epitaxial Type

TYPICAL CHARACTERISTICS

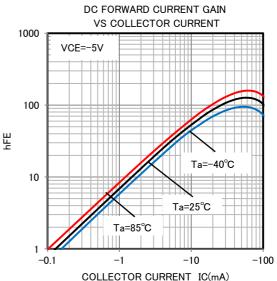
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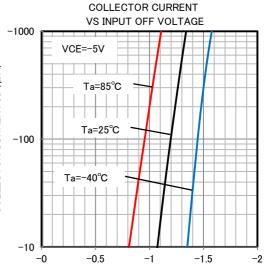
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-10

COLLECTOR CURRENT IC(mA)





INPUT OFF VOLTAGE VI(off) (V)

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-100

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