查询RT1N431C供应商

RT1N431X SERIES

〈Transistor〉 Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

UNIT:mm

OUTLINE DRAWING

DESCRIPTION

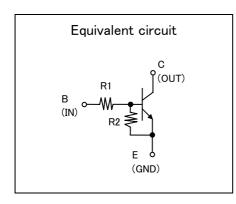
RT1N431X is a one chip transistor with built-in bias resistor,PNP type is RT1P431X.

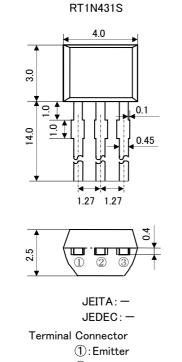
FEATURE

•Built-in bias resistor (R1=4.7k Ω ,R2=4.7k Ω).

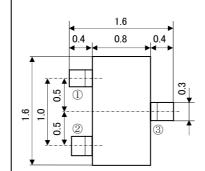


Inverted circuit,switching circuit,interface circuit, driver circuit.





Emitter
Collector
Base



0.1

JEITA : -

JEDEC : -

Terminal Connector

1):Base

(2): Emitter

3: Collector

RT1N431M

2.1

1.25

0.425

0.3

0.425

1

0.65

2.0

1.3 0.65

0.9

0.7

 $0 \sim 0.1$

JEITA: SC-70

JEDEC: -

Terminal Connector

(1):Base

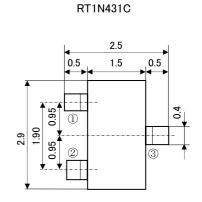
(2): Emitter

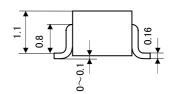
3: Collector

6

0.7

RT1N431U





JEITA: SC-59 JEDEC: Similar to TO-236

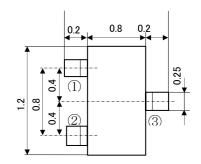
Terminal Connector

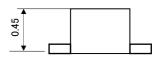
①:Base

2:Emitter

3: Collector

RT1N431T





JEITA: -JEDEC: -Terminal Connector ①:Base ②:Emitter ③:Collector

ISAHAYA ELECTRONICS CORPORATION

RT1N431X SERIES

Transistor With Resistor For Switching Application

Silicon NPN Epitaxial Type

MAXIMUM RATING (Ta=25°C)

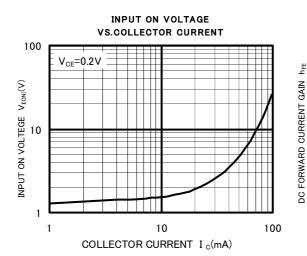
SYMBOL	PARAMETER	RATING					
		RT1N431T	RT1N431U	RT1N431M	RT1N431C	RT1N431S	UNIT
V _{CBO}	Collector to Base voltage	50					V
V _{EBO}	Emitter to Base voltage	10					V
V _{CEO}	Collector to Emitter voltage	50					V
Ι _c	Collector current	100					mA
I _{CM}	Peak Collector current	200					mA
Pc	Collector dissipation(Ta=25°C)	125 (※)	125	1	50	450	mW
Tj	Junction temperature	+125		+150			°C
Tstg	Storage temperature	-55~+125		-55~+150			٦°

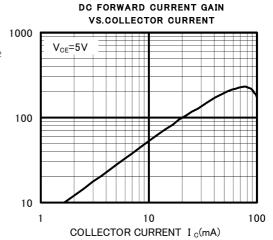
ELECTRICAL CHARACTERISTICS (Ta=25°C)

(%) package mounted on 9mm × 19mm × 1mm glass-epoxy substrate.

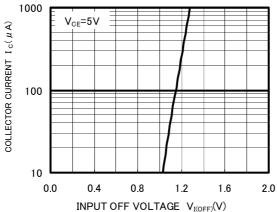
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	$I_{c}=100 \mu$ A, $R_{BE}=\infty$	50			V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0			0.1	μA
h _{FE}	DC forward current gain	V _{cE} =5V, I _c =10mA	20			—
$V_{CE(sat)}$	C to E saturation voltage	I $_{\rm C}$ =10mA, I $_{\rm B}$ =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 resistance		3.3	4.7	6.1	kΩ
R_2 / R_1	Resistance ratio		0.8	1.0	1.2	
f _T	Gain band width product	V _{CE} =6V, I _E =-10mA		200		MHz

TYPICAL CHARACTERISTICS









ISAHAYA ELECTRONICS CORPORATION

(Transistor)



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