RT1N436X SERIES

(Transistor)

UNIT: mm

0.5

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

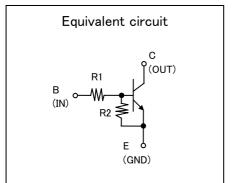
RT1N436X is a one chip transistor with built-in bias resistor, PNP type is RT1P436X.

FEATURE

•Built-in bias resistor (R1=4.7k Ω ,R2=47k Ω).

APPLICATION

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



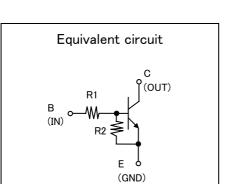
RT1N436T

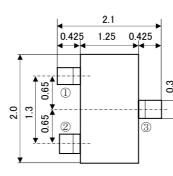
0.2

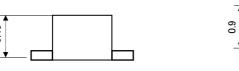
0.4 (1)

0.8

8.0







(3)

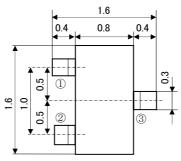
JEITA: -JEDEC: -

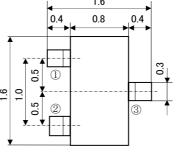
Terminal Connector

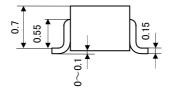
- ①:Base
- 2: Emitter
- 3: Collector

OUTLINE DRAWING

RT1N436U RT1N436C





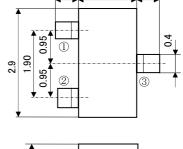


JEITA: -JEDEC: -

Terminal Connector

- ①:Base
- 2: Emitter
- 3: Collector

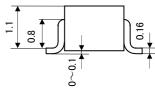




0.5

2.5

1.5

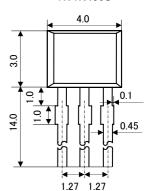


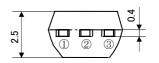
JEITA: SC-59 JEDEC: Similar to TO-236

Terminal Connector

- 1:Base
- 2: Emitter
- 3: Collector

RT1N436S

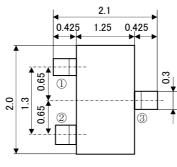


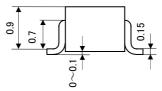


JEITA: -JEDEC: -

Terminal Connector

- (1): Emitter
- 2: Collector
- 3:Base





JEITA: SC-70 JEDEC: -Terminal Connector

(1):Base

2: Emitter

3: Collector

RT1N436X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

MAXIMUM RATING (Ta=25°C)

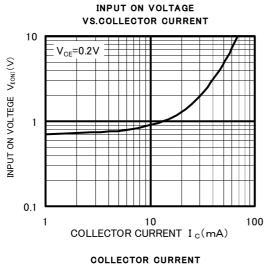
SYMBOL	PARAMETER	RATING					
		RT1N436T	RT1N436U	RT1N436M	RT1N436C	RT1N436S	UNIT
V_{CBO}	Collector to Base voltage	50					
V_{EBO}	Emitter to Base voltage	6					
V_{CEO}	Collector to Emitter voltage	50					
Ic	Collector current	100					
I _{CM}	Peak Collector current	200					
P _c	Collector dissipation(Ta=25°C)	125(※)	150	2	00	450	mW
Tj	Junction temperature	+125	+125 +150				
Tstg	Storage temperature	-55∼+125 -55∼+150					°C

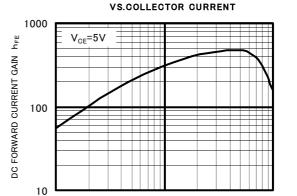
ELECTRICAL CHARACTERISTICS (Ta=25°C)

 (\clime{x}) package mounted on 9mm imes 19mm imes 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 μ A, R _{BE} =∞	50			٧
I _{CBO}	Collector cut off current	V_{CB} =50V, I_{E} =0			0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =10mA	80			ı
$V_{CE(sat)}$	C to E saturation voltage	I_{C} =10mA, I_{B} =0.5mA			0.3	٧
$V_{I(ON)}$	Input on voltage	V_{CE} =0.2V, I $_{C}$ =5mA		0.8	1.4	٧
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V, I $_{C}$ =100 μ A	0.4	0.6		>
R ₁	Input resistance		3.3	4.7	6.1	kΩ
R ₂ /R ₁	Resistance ratio		8	10	12	
f⊤	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$		200		MHz

TYPICAL CHARACTERISTICS



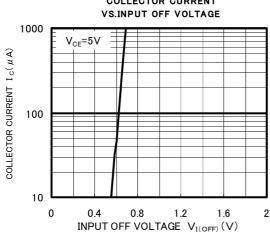


10

COLLECTOR CURRENT Ic(mA)

100

DC FORWARD CURRENT GAIN





Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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