RT1P436X SERIES

(Transistor) Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

OUTLINE DRAWING

UNIT:mm

DESCRIPTION

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

FEATURE

APPLICATION

driver circuit.

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

Inverted circuit, switching circuit, interface circuit,

Equivalent circuit

R1

R2

F (GND)

RT1P436T2

JEITA, JEDEC : -

ISAHAYA: T-USM

Terminal Connector

①:Base

2:Emitter

3: Collector

0.2

1

4.0

04

1.21

0.8

0.5

1.21

0.81

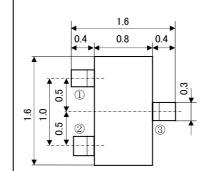
0.2

3

в

(IN)

С

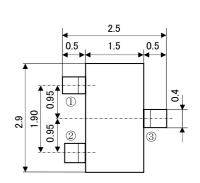


0.1

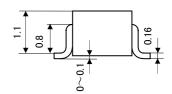
6

JEITA : -

RT1P436U



RT1P436C



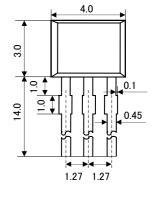
JEITA: SC-59 JEDEC: Similar to TO-236

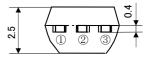
①:Base



3: Collector

RT1P436S



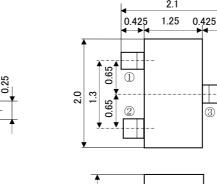


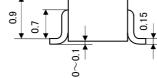


(OUT) JEDEC : -Terminal Connector 1):Base

0.7 0.55





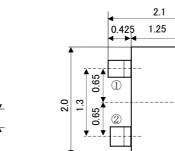


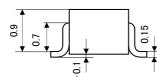
JEITA: SC-70 JEDEC: -**Terminal Connector** (1):Base 2: Emitter 3: Collector

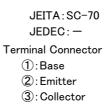
(2): Emitter 3: Collector

0.3

3







ISAHAYA ELECTRONICS CORPORATION

www.DataSheet4U.com

Terminal Connector

RT1P436X SERIES

(Transistor)

Transistor With Resistor

For Switching Application

Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25°C)

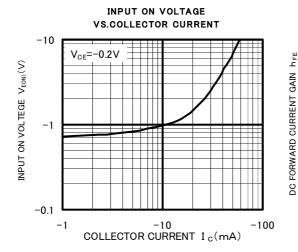
SYMBOL	PARAMETER	RATING					
		RT1P436T2	RT1P436U	RT1P436M	RT1P436C	RT1P436S	UNIT
V _{CBO}	Collector to Base voltage	-50					V
V _{EBO}	Emitter to Base voltage	-6				V	
V _{CEO}	Collector to Emitter voltage	-50				V	
Ι _c	Collector current	-100					mA
I _{CM}	Peak Collector current	-200					mA
Pc	Collector dissipation(Ta=25°C)	125(※)	150	20	00	450	mW
Tj	Junction temperature	+125 +150			°C		
Tstg	Storage temperature	-55~+125 -55~+150			О°		

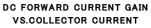
ELECTRICAL CHARACTERISTICS (Ta=25°C)

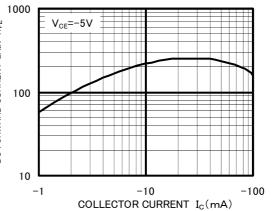
(※) package mounted on 9mm×19mm×1mm glass-epoxy substrate.

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION		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	80			—
$V_{CE(sat)}$	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		-0.8	-1.4	V
$V_{I(OFF)}$	Input off voltage	V_{ce} =-5V, I _c =-100 μ A	-0.4	-0.6		V
R ₁	Input resistance		3.3	4.7	6.1	kΩ
R_2 / R_1	Resistance ratio		8	10	12	
f _T	Gain band width product	V _{CE} =-6V, I _E =10mA		150		MHz

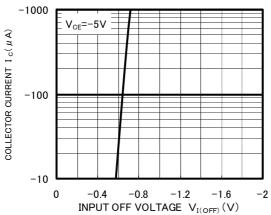
TYPICAL CHARACTERISTICS







COLLECTOR CURRENT VS.INPUT OFF VOLTAGE



www.DataSheet4U.com

ISAHAYA ELECTRONICS CORPORATION



Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

Keep safety first in your circuit designs!

ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-farmable material or (3) prevention against any malfunction or mishap.

Notes regarding these materials

These materials are intended as a reference to our customers in the selection of the ISAHAYA products best suited to the customer's application; they don't convey any license under any intellectual property rights, or any other rights, belonging ISAHAYA or third party.

ISAHAYA or third party. ISAHAYA Electronics Corporation assumes no responsibility for any damage, or infringement of any third party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.

-All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by ISAHAYA Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact ISAHAYA Electronics Corporation before purchasing product listed herein.

ISAHAYA Electronics Corporation products are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact ISAHAYA electronics corporation or an authorized ISAHAYA products distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.

•The prior written approval of ISAHAYA Electronics Corporation is necessary to reprint or reproduce in whole or in part these materials.

If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or re-export contrary to he export control laws and regulations of Japan and/or the country of destination is prohibited.
Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these

•Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these materials or the products contained therein.