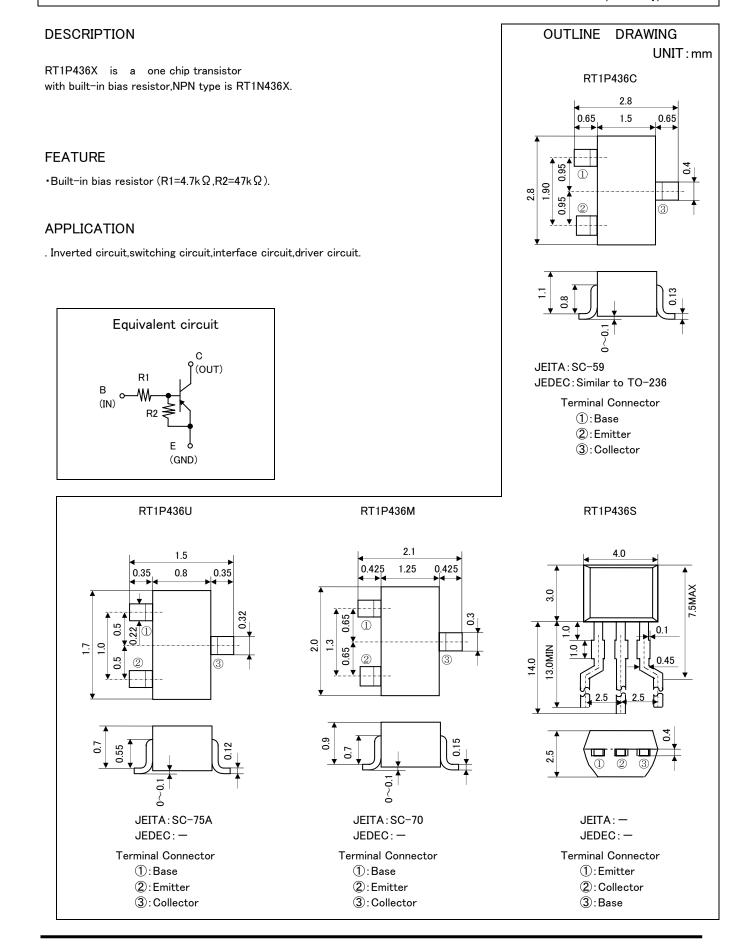
## **RT1P436X SERIES**

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

# RT1P436X SERIES

〈Transistor〉

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

### MARKING

RT1P436C RT1P436M RT1P436U	RT1P436S
PH type name	type name Lot No.

### MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1P436U	RT1P436M	RT1P436C	RT1P436S	UNIT
V <sub>CBO</sub>	Collector to Base voltage	-50				V
V <sub>EBO</sub>	Emitter to Base voltage	-6				V
V <sub>CEO</sub>	Collector to Emitter voltage	-50				V
V <sub>IN</sub>	Input voltage	-30				V
Ι <sub>c</sub>	Collector current	-100				mA
I <sub>CM</sub>	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

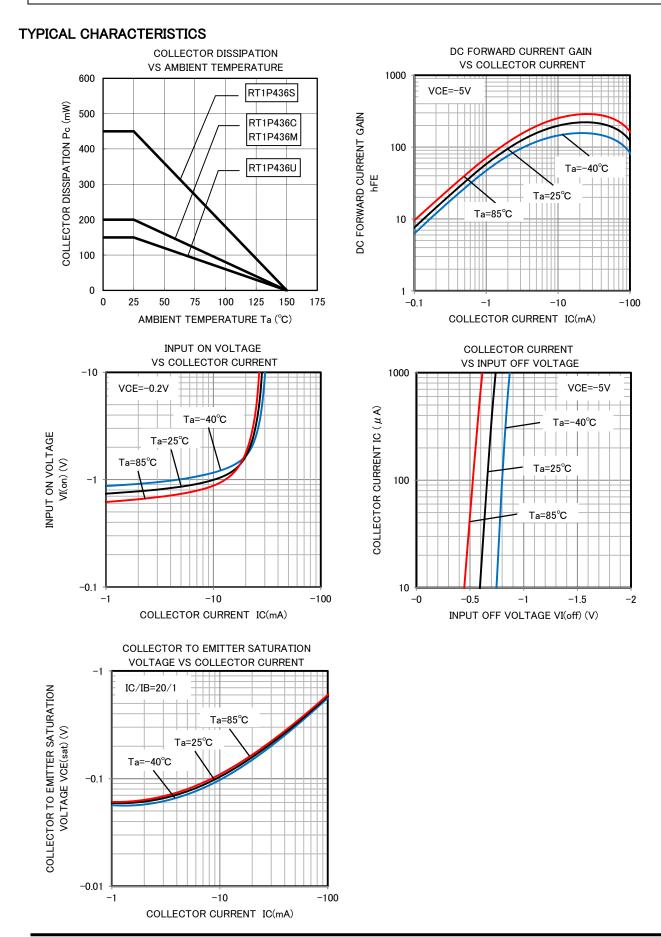
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E breakdown voltage	I <sub>c</sub> =−100 μ A, R <sub>BE</sub> =∞	-50		—	V
I <sub>CBO</sub>	Collector cut off current	V <sub>CB</sub> =-50V, I <sub>E</sub> =0	—	1	-0.1	μA
I <sub>EBO</sub>	Emitter cut off current	$V_{EB}$ =-5V, I <sub>c</sub> =0	-73	-97	-140	μA
h <sub>FE</sub>	DC forward current gain	V <sub>CE</sub> =-5V, I <sub>c</sub> =-10mA	80		—	—
V <sub>CE(sat)</sub>	C to E saturation voltage	I <sub>c</sub> =–10mA, I <sub>B</sub> =–0.5mA	—	-0.1	-0.3	V
V <sub>I(ON)</sub>	Input on voltage	$V_{ce}$ =-0.2V, I <sub>c</sub> =-5mA	—	-0.8	-1.4	V
$V_{I(OFF)}$	Input off voltage	$V_{ce}$ =-5V, I <sub>c</sub> =-100 $\mu$ A	-0.4	-0.6	—	V
R <sub>1</sub>	Input resistor	_	3.3	4.7	6.1	kΩ
$R_2 / R_1$	Resistor ratio	-	8	10	12	_
f <sub>⊤</sub>	Gain band width product	V <sub>CE</sub> =-6V, I <sub>E</sub> =10mA	_	150	_	MHz

## **RT1P436X SERIES**

〈Transistor〉 Transistor With Resistor For Switching Application

Silicon PNP Epitaxial Type



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