RT1N436X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

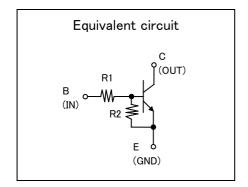
RT1N436X is a one chip transistor with built-in bias resistor, PNP type is RT1P436X.

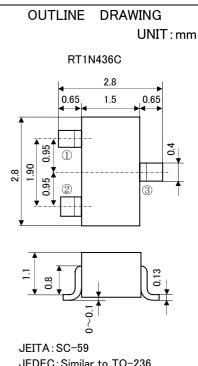
FEATURE

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

APPLICATION

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

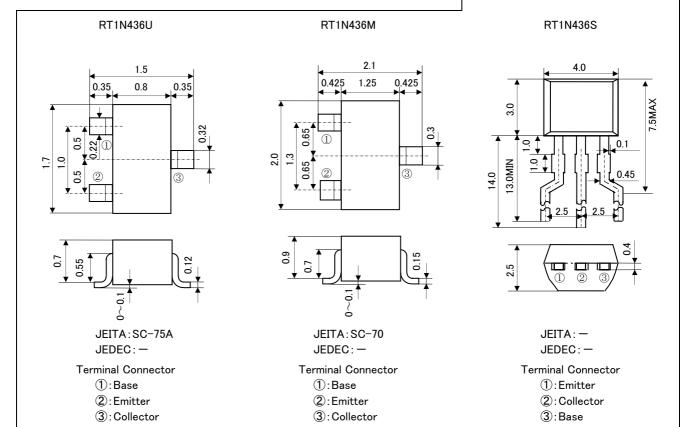




JEDEC: Similar to TO-236

Terminal Connector

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

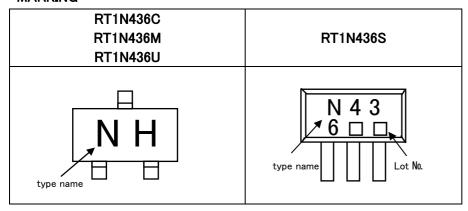


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		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				
V_{IN}	Input voltage	30				
Ic	Collector current	100				
I _{CM}	Peak Collector current	200				
P _c	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150				
Tstg	Storage temperature	−55∼+150				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

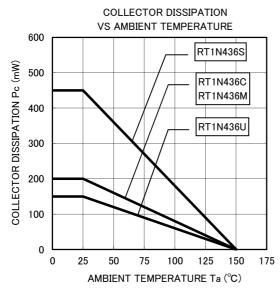
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STWIBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =100 μ A, R _{BE} =∞	50	_	ı	V
I _{CBO}	Collector cut off current	$V_{CB}=50V$, $I_{E}=0$	1	_	0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =5V, I $_{C}$ =0	73	97	140	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =10mA	80	_	1	_
$V_{CE(sat)}$	C to E saturation voltage	$I_{\rm C}$ =10mA, $I_{\rm B}$ =0.5mA	1	_	0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =0.2V, I $_{C}$ =5mA	I	0.8	1.4	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V, I $_{C}$ =100 μ A	0.4	0.6	ı	V
R ₁	Input resistor	_	3.3	4.7	6.1	kΩ
R ₂ /R ₁	Resistor ratio	_	8	10	12	_
f _⊤	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	_	200	_	MHz

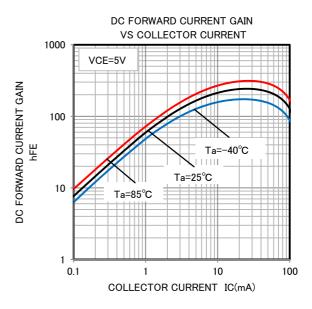
RT1N436X SERIES

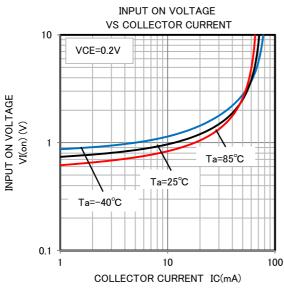
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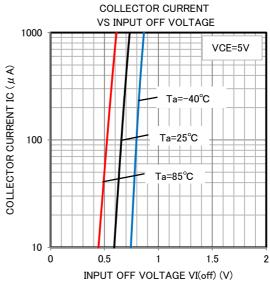
Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

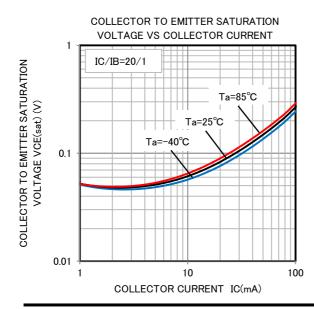
TYPICAL CHARACTERISTICS













Keep safety first in your circuit designs!

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