RT1N440X SERIES

(Transistor)

Transistor With Resistor
For Switching Application
Silicon NPN Epitaxial Type

DESCRIPTION

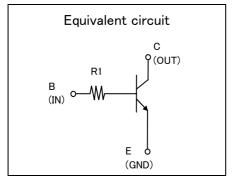
RT1N440X is a one chip transistor with built-in bias resistor,PNP type is RT1P440X.

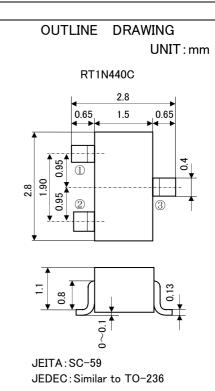
FEATURE

•Built-in bias resistor (R1=47k Ω).

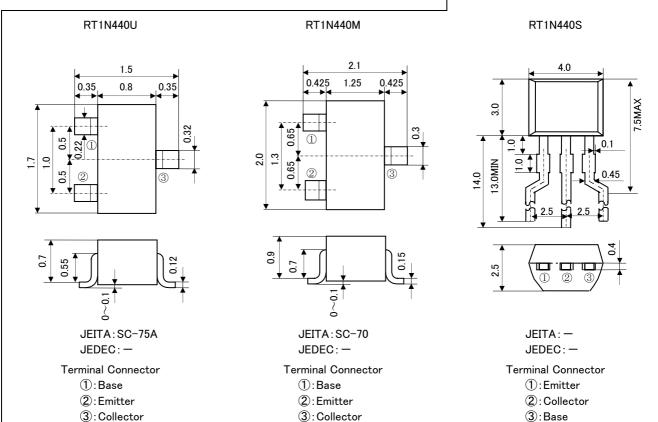
APPLICATION

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





Terminal Connector
①:Base
②:Emitter
③:Collector

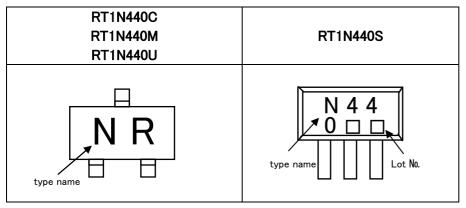


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MARKING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER -	RATING				
		RT1N440U	RT1N440M	RT1N440C	RT1N440S	UNIT
V_{CBO}	Collector to Base voltage	50				
V_{EBO}	Emitter to Base voltage	6				
V_{CEO}	Collector to Emitter voltage	50				
Ιc	Collector current	100				
I _{CM}	Peak Collector current	200				
P _c	Collector dissipation(Ta=25°C)	150	20	0	450	mW
Tj	Junction temperature	+150				
Tstg	Storage temperature	−55 ~ +150				

ELECTRICAL CHARACTERISTICS (Ta=25°C)

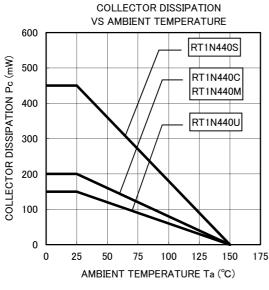
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STMBOL		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =100 μ A, R _{BE} =∞	50	_	1	V
I _{CBO}	Collector cut off current	V_{CB} =50V, I $_{E}$ =0	l	ı	0.1	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =5V, I $_{C}$ =0	1	-	0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =1mA	100	_	-	_
$V_{CE(sat)}$	C to E saturation voltage	I_{C} =10mA, I_{B} =0.5mA	I	ı	0.3	V
R ₁	Input resistor	_	33	47	61	kΩ
f _⊤	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	_	200	_	MHz

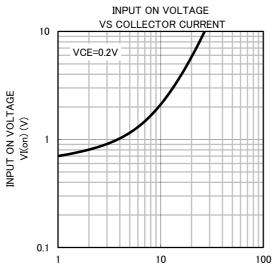
RT1N440X SERIES

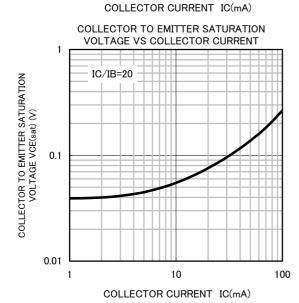
(Transistor)

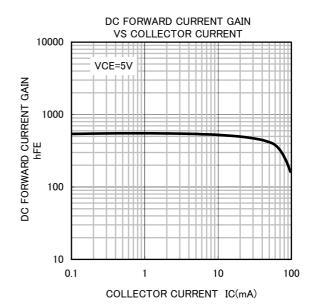
Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

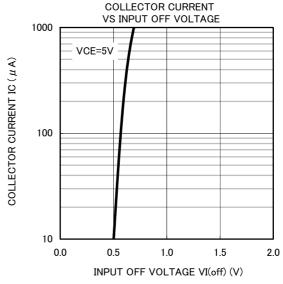
TYPICAL CHARACTERISTICS (Ta=25°C)













Keep safety first in your circuit designs!

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