RT1P441X SERIES

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

OUTLINE DRAWING

DESCRIPTION

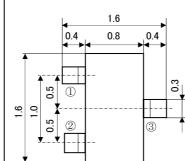
RT1P441X is a one chip transistor with built-in bias resistor,NPN type is RT1N441X.

FEATURE

APPLICATION

driver circuit.

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



0.1

6

JEITA : -

JEDEC : -

Terminal Connector

1):Base

2: Emitter

3: Collector

RT1P441M

0.425

T

 $0 \sim 0.1$

JEITA: SC-70

JEDEC: -

Terminal Connector

(1):Base

(2): Emitter

3: Collector

0.65

2.0

0.9 0.7 2.1

1.25

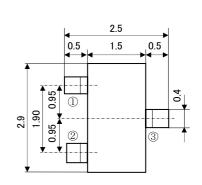
0.425

3

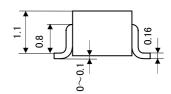
0.1

0.3

RT1P441U



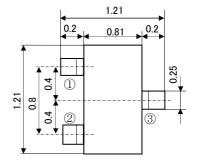
RT1P441C

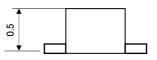


JEITA: SC-59 JEDEC: Similar to TO-236

- **Terminal Connector**
 - ①:Base
 - 2: Emitter
 - 3: Collector

RT1P441T2

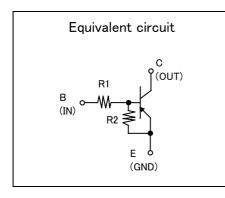




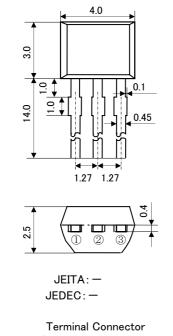
JEITA, JEDEC : -ISAHAYA: T-USM Terminal Connector (1):Base 2: Emitter 3: Collector

Inverted circuit, switching circuit, interface circuit,

0.7 0.55







1:Emitter 2: Collector

③:Base

ISAHAYA ELECTRONICS CORPORATION

www.DataSheet4U.com

(Transistor)

UNIT:mm

RT1P441X SERIES

(Transistor)

Transistor With Resistor

For Switching Application

Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25°C)

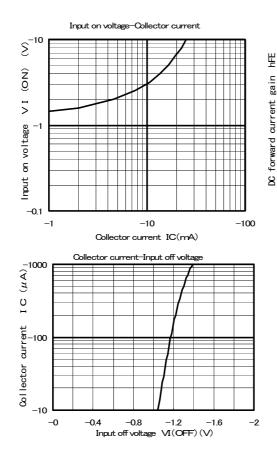
SYMBOL	PARAMETER	RATING					
		RT1P441T2	RT1P441U	RT1P441M	RT1P441C	RT1P441S	UNIT
V _{CBO}	Collector to Base voltage	-50					V
V _{EBO}	Emitter to Base voltage	-10					V
V _{CEO}	Collector to Emitter voltage	-50					V
Ι _c	Collector current	-100					mA
I _{CM}	Peak Collector current	-200					mA
Pc	Collector dissipation(Ta=25°C)	125(※)	150	20	00	450	mW
Tj	Junction temperature	+125 +150			°C		
Tstg	Storage temperature	-55~+125 -55~+150			°C		

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

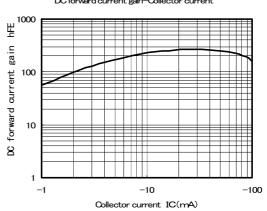
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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 =-5mA	50			—
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		-1.8	-5.0	V
V _{I(OFF)}	Input off voltage	V_{ce} =-5V, I _c =-100 μ A	-0.8	-1.1		V
R ₁	Input resistance		33	47	61	kΩ
R_2 / R_1	Resistance ratio		0.9	1.0	1.1	
f⊤	Gain band width product	V _{CE} =-6V, I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS



DC forward current gain-Collector current



ISAHAYA ELECTRONICS CORPORATION



Marketing division, Marketing planning department

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

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