

RT1P44HX SERIES

<Transistor>

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

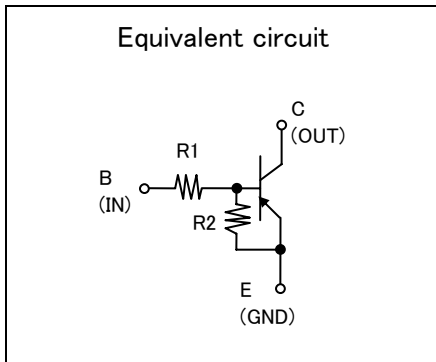
RT1P44HX is a one chip transistor with built-in bias resistor, NPN type is RT1N44HX.

FEATURE

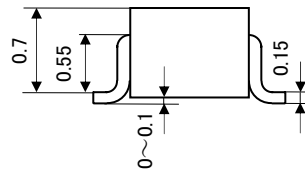
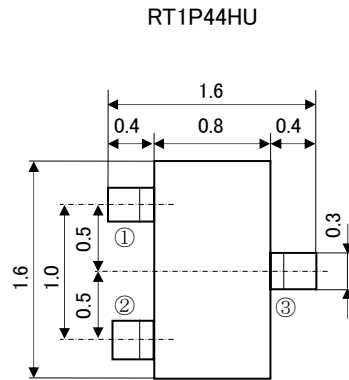
- Built-in bias resistor (R1=47kΩ, R2=22kΩ).

APPLICATION

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



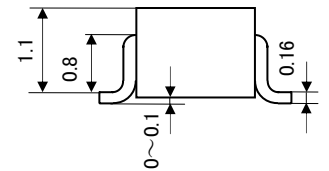
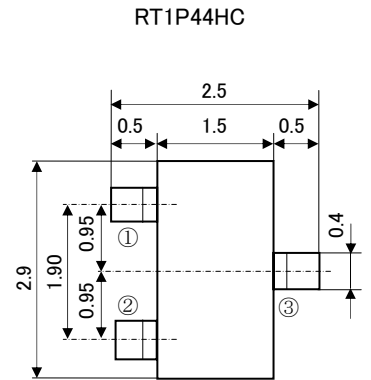
OUTLINE DRAWING UNIT : mm



JEITA: —
JEDEC: —

Terminal Connector

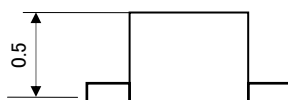
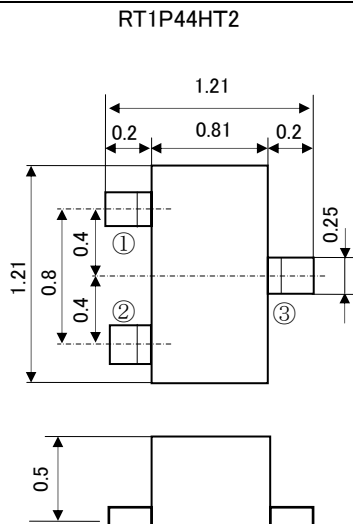
- ①: Base
- ②: Emitter
- ③: Collector



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

Terminal Connector

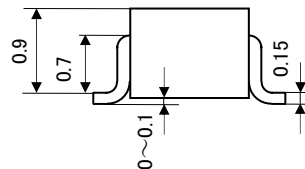
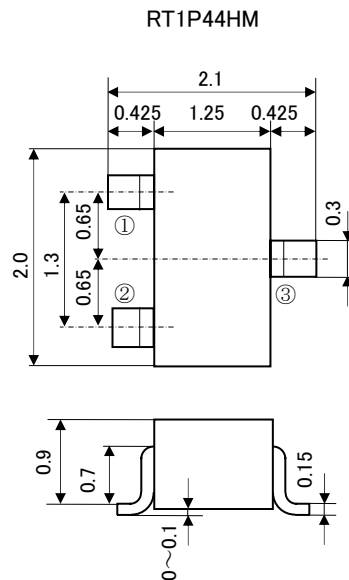
- ①: Base
- ②: Emitter
- ③: Collector



JEITA, JEDEC: —
ISAHAYA: T-USM

Terminal Connector

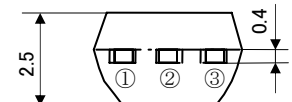
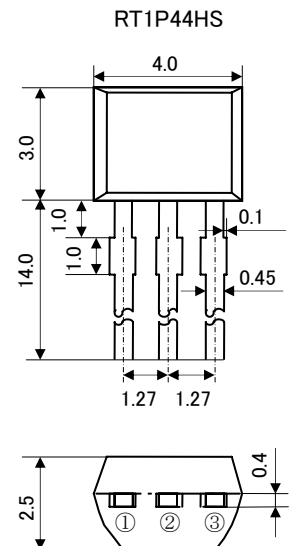
- ①: Base
- ②: Emitter
- ③: Collector



JEITA: SC-70
JEDEC: —

Terminal Connector

- ①: Base
- ②: Emitter
- ③: Collector



JEITA: —
JEDEC: —

Terminal Connector

- ①: Emitter
- ②: Collector
- ③: Base

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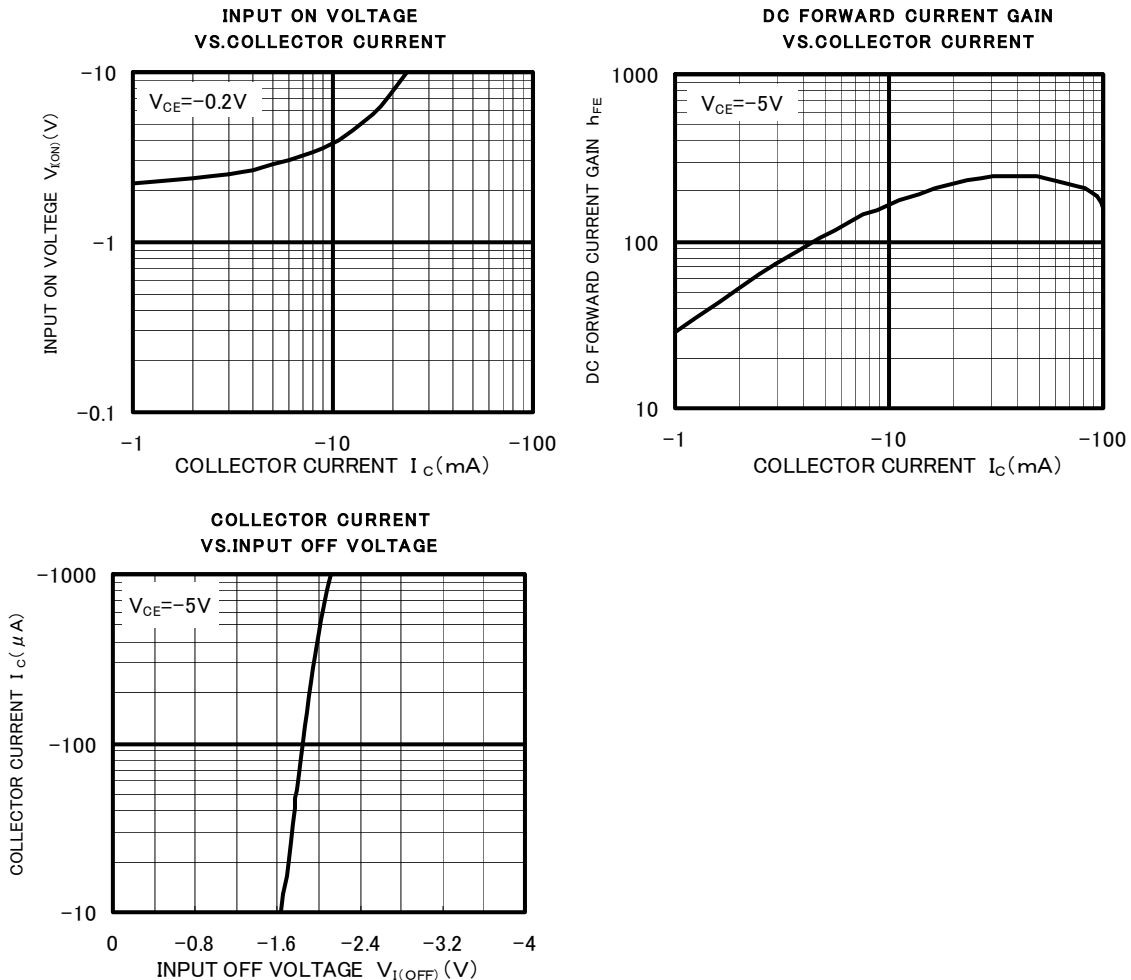
MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING					UNIT
		RT1P44HT2	RT1P44HU	RT1P44HM	RT1P44HC	RT1P44HS	
V_{CBO}	Collector to Base voltage	-50					V
V_{EBO}	Emitter to Base voltage	-10					V
V_{CEO}	Collector to Emitter voltage	-50					V
I_C	Collector current	-100					mA
I_{CM}	Peak Collector current	-200					mA
P_C	Collector dissipation(Ta=25°C)	125(※)	150	200		450	mW
T_j	Junction temperature	+125	+150				°C
T_{stg}	Storage temperature	-55~+125		-55~+150			°C

ELECTRICAL CHARACTERISTICS (Ta=25°C) (※) package mounted on 9mm × 19mm × 1mm glass-epoxy substrate.

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	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	$V_{CE} = -5V, I_C = -5mA$	56			—
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -10mA, I_B = -0.5mA$			-0.3	V
$V_{I(ON)}$	Input on voltage	$V_{CE} = -0.2V, I_C = -5mA$		-2.6	-6.3	V
$V_{I(OFF)}$	Input off voltage	$V_{CE} = -5V, I_C = -100 \mu A$	-1.3	-1.7		V
R_1	Input resistance		33	47	61	k Ω
R_2/R_1	Resistance ratio		0.37	0.47	0.57	
f_T	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		150		MHz

TYPICAL CHARACTERISTICS





Marketing division, Marketing planning department

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