RT1N44QX SERIES

(Transistor)

UNIT: mm

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

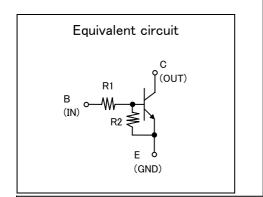
RT1N44QX is a one chip transistor with built-in bias resistor,PNP type is RT1P44QX.

FEATURE

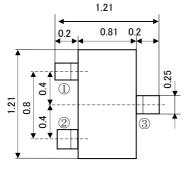
www.DataSheet4U.*Built-in bias resistor (R1=47k Ω ,R2=10k Ω).

APPLICATION

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



RT1N44QT2





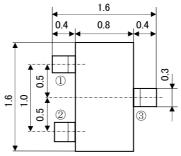
JEITA, JEDEC:-ISAHAYA:T-USM

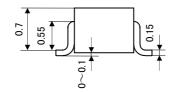
Terminal Connector

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

OUTLINE DRAWING

RT1N44QU



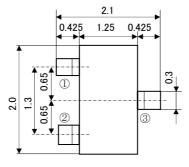


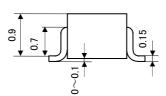
JEITA: — JEDEC: —

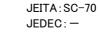
Terminal Connector

- ①:Base
- 2: Emitter
- 3: Collector

RT1N44QM



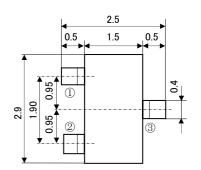


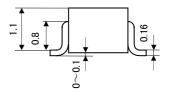


Terminal Connector

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

RT1N44QC





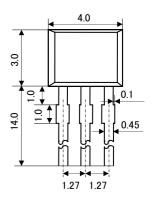
JEITA: SC-59

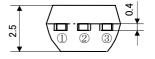
JEDEC: Similar to TO-236

Terminal Connector

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

RT1N44QS





JEITA: — JEDEC: —

Terminal Connector

- 1: Emitter
- 2: Collector
- ③:Base

www.DataSheet4U.com

RT1N44QX SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

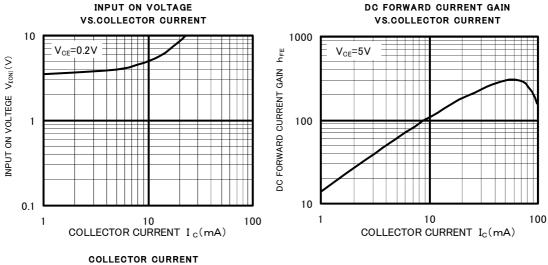
MAXIMUM RATING (Ta=25°C)

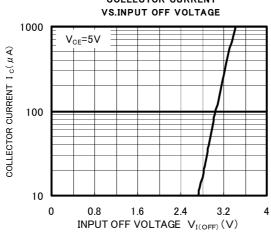
SYMBOL	PARAMETER	RATING					UNIT
		RT1N44QT2	RT1N44QU	RT1N44QM	RT1N44QC	RT1N44QS	ONIT
V _{CBO}	Collector to Base voltage		V				
V _{EBO}	Emitter to Base voltage		V				
V_{CEO}	Collector to Emitter voltage		V				
I c	Collector current		mA				
I _{CM}	Peak Collector current	200					
Pc	Collector dissipation(Ta=25°C)	(※)125	150	20	00	450	mW
U.com _{Tj}	Junction temperature	+125 +150					°C
Tstg	Storage temperature	-55 ~ +125					°C

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

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			٧
I _{CBO}	Collector cut off current	$V_{CB}=50V$, $I_{E}=0$			0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I $_{C}$ =5mA	33			_
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = 10$ mA, $I_{B} = 0.5$ mA			0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =0.2V, I $_{C}$ =5mA		4.2	8.9	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V, I $_{C}$ =100 μ A	2.3	3.1		V
R ₁	Input resistance		33	47	61	kΩ
R ₂ /R ₁	Resistance ratio		0.17	0.21	0.26	
f_T	Gain band width product	V_{CE} =6V, I_{E} =-10mA		200		MHz

TYPICAL CHARACTERISTICS







Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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