

RT1N44BX SERIES

Transistor

Transistor With Resistor

For Switching Application

Silicon NPN Epitaxial Type

DESCRIPTION

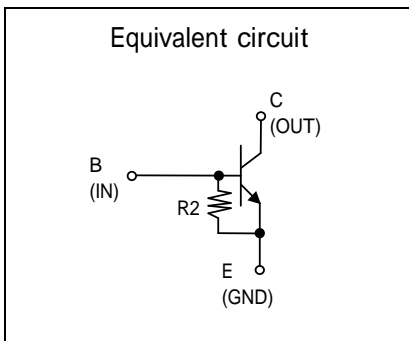
RT1N44BX is a one chip transistor with built-in bias resistor, PNP type is RT1P44BX.

FEATURE

- Built-in bias resistor (R2=47k).

APPLICATION

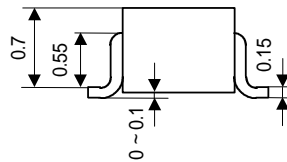
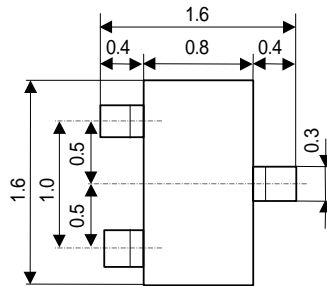
Inverted circuit, switching circuit, interface circuit, driver circuit.



OUTLINE DRAWING

UNIT : mm

RT1N44BU



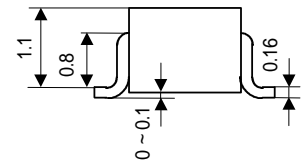
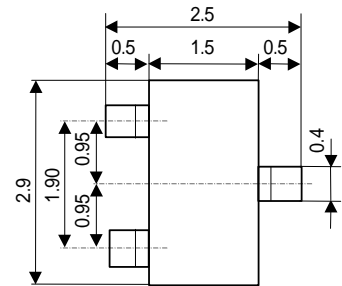
JEITA: -

JEDEC: -

Terminal Connector

- : Base
- : Emitter
- : Collector

RT1N44BC



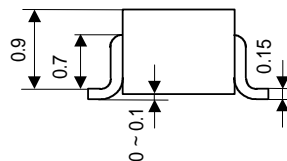
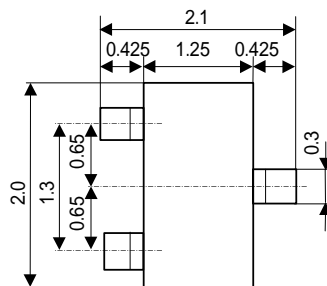
JEITA: SC-59

JEDEC: Similar to TO-236

Terminal Connector

- : Base
- : Emitter
- : Collector

RT1N44BM



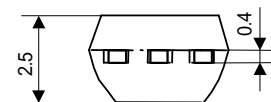
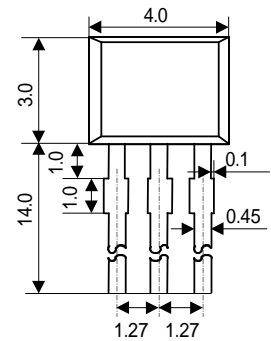
JEITA: SC-70

JEDEC: -

Terminal Connector

- : Base
- : Emitter
- : Collector

RT1N44BS



JEITA: -

JEDEC: -

Terminal Connector

- : Emitter
- : Collector
- : Base

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MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1N44BU	RT1N44BM	RT1N44BC	RT1N44BS	
V_{CBO}	Collector to Base voltage	50				V
V_{EBO}	Emitter to Base voltage	6				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)	150	200	450	mW	
T_j	Junction temperature	+150	+150			
T_{stg}	Storage temperature	-55 ~ +150		-55 ~ +150		

ELECTRICAL CHARACTERISTICS (Ta=25)

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	$V_{CE}=5V, I_C=5mA$	68			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C=10mA, I_B=0.5mA$			0.3	V
R_2	Emitter-base resistance		33	47	61	k
f_T	Gain band width product	$V_{CE}=6V, I_E=-10mA$		200		MHz



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