

RT1N150X SERIES

Transistor

Transistor With Resistor
For Switching Application
Silicon NPN Epitaxial Type

DESCRIPTION

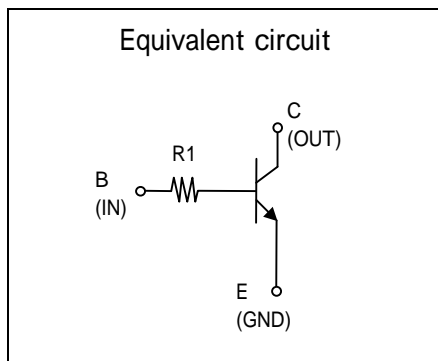
RT1N150X is a one chip transistor with built-in bias resistor, PNP type is RT1P150X.

FEATURE

- Built-in bias resistor (R1=100k).

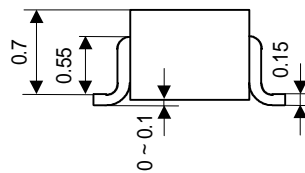
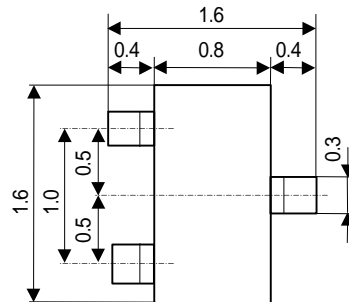
APPLICATION

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



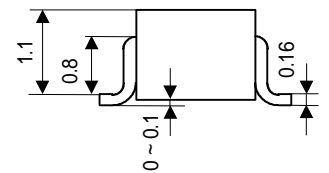
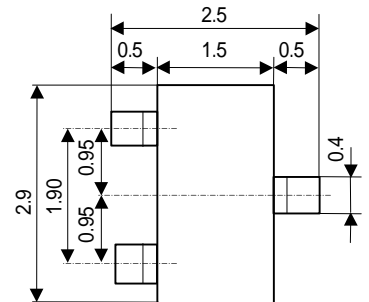
OUTLINE DRAWING UNIT : mm

RT1N150U



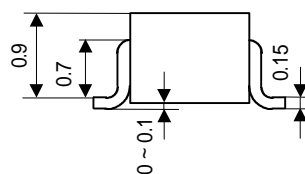
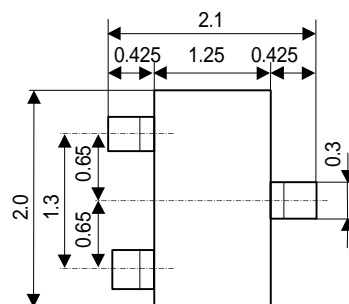
JEITA: -
JEDEC: -
Terminal Connector
: Base
: Emitter
: Collector

RT1N150C



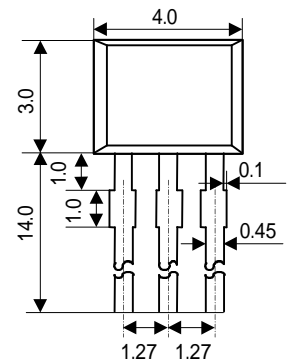
JEITA: SC-59
JEDEC: Similar to TO-236
Terminal Connector
: Base
: Emitter
: Collector

RT1N150M



JEITA: SC-70
JEDEC: -
Terminal Connector
: Base
: Emitter
: Collector

RT1N150S



JEITA: -
JEDEC: -
Terminal Connector
: Emitter
: Collector
: Base

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Transistor

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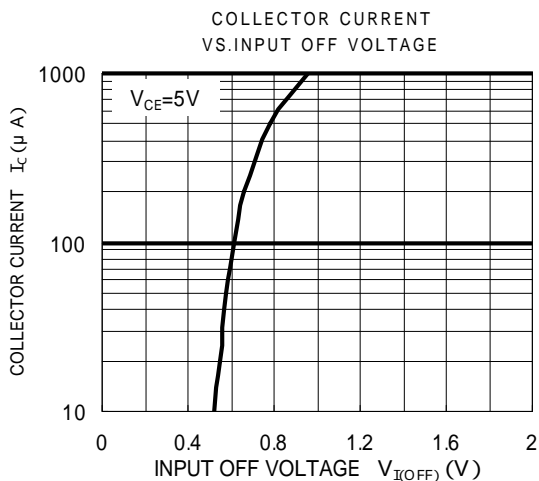
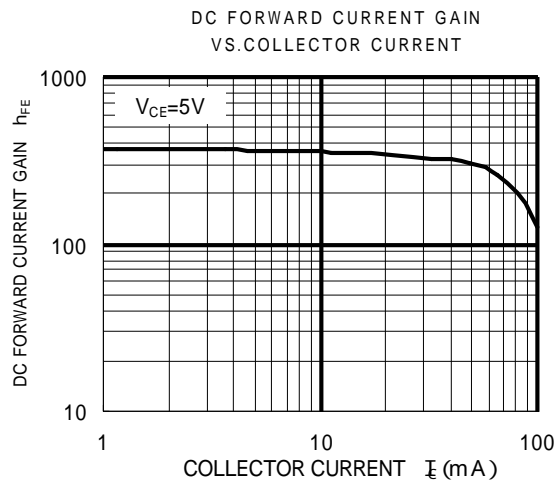
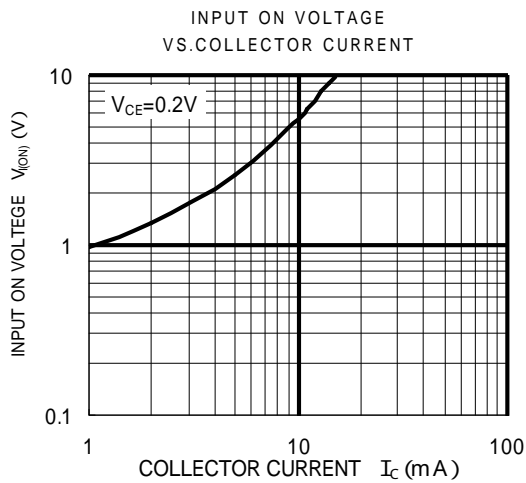
MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1N150U	RT1N150M	RT1N150C	RT1N150S	
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	
Tj	Junction temperature	+150	+150			
Tstg	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	$I_C=100 \mu A, R_{BE}=\text{---}$	50			V
I_{CBO}	Collector cut off current	$V_{CB}=50V, I_E=0$			0.1	μA
h_{FE}	DC forward current gain	$V_{CE}=5V, I_C=1mA$	100			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C=1mA, I_B=0.1mA$			0.3	V
R_1	Input resistance			100		k
f_T	Gain band width product	$V_{CE}=6V, I_E=-10mA$		200		MHz

TYPICAL CHARACTERISTICS





Marketing division, Marketing planning department

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