

RT1P434X SERIES

Transistor

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

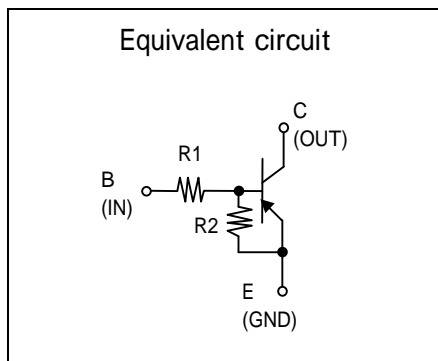
RT1P434X is a one chip transistor with built-in bias resistor, NPN type is RT1N434X.

FEATURE

- Built-in bias resistor (R1=4.7k, R2=22k).

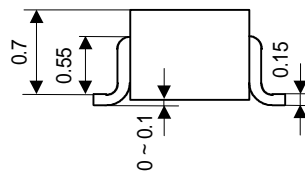
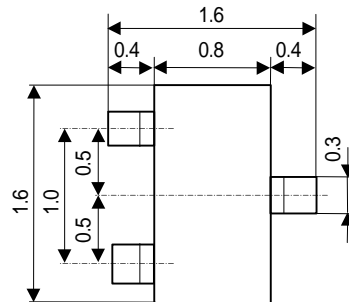
APPLICATION

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



OUTLINE DRAWING UNIT : mm

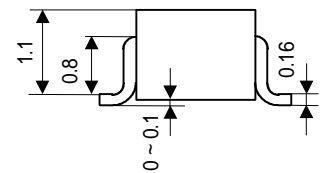
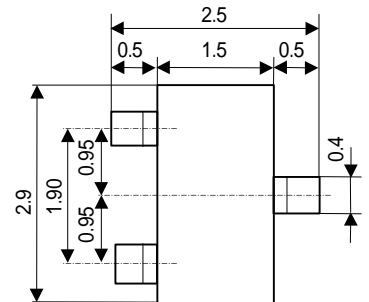
RT1P434U



JEITA: -
JEDEC: -

Terminal Connector
: Base
: Emitter
: Collector

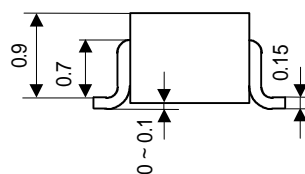
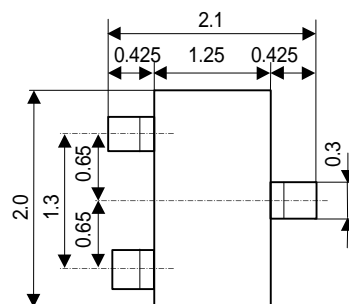
RT1P434C



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

Terminal Connector
: Base
: Emitter
: Collector

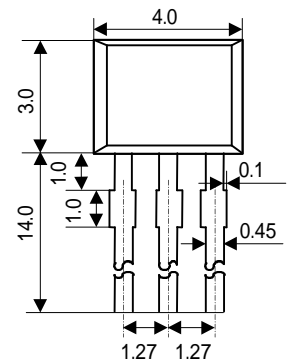
RT1P434M



JEITA: SC-70
JEDEC: -

Terminal Connector
: Base
: Emitter
: Collector

RT1P434S



JEITA: -
JEDEC: -

Terminal Connector
: Emitter
: Collector
: Base

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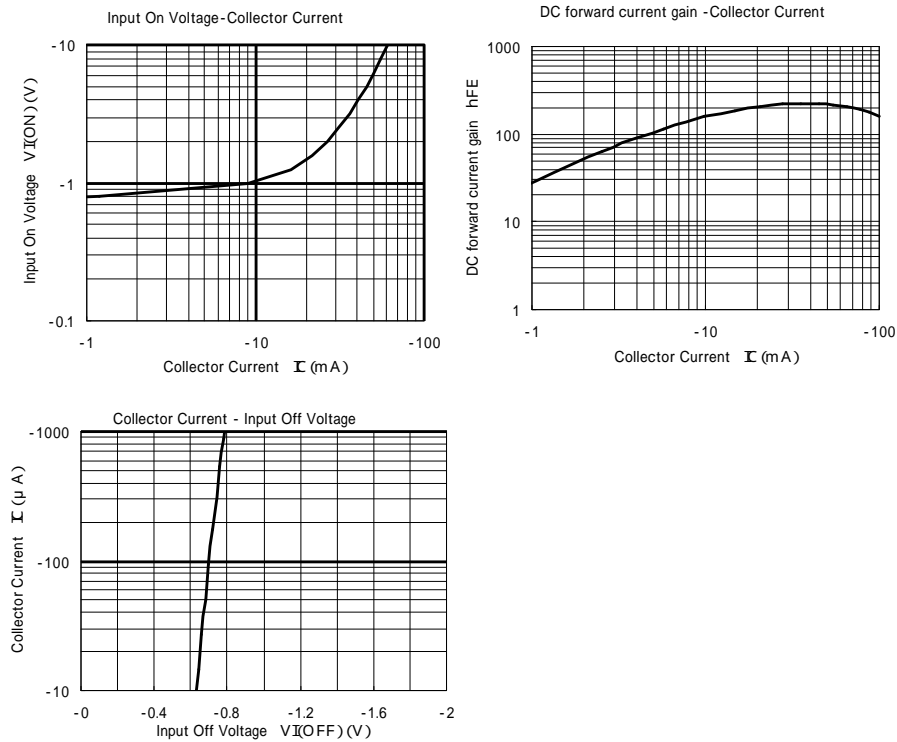
MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1P434U	RT1P434M	RT1P434C	RT1P434S	
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	$I_C = -100 \mu A, R_{BE} =$	-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	$V_{CE} = -0.2V, I_C = -5mA$		-0.9	-1.7	V
$V_{I(OFF)}$	Input off voltage	$V_{CE} = -5V, I_C = -100 \mu A$	-0.5	-0.7		V
R_1	Input resistance		3.3	4.7	6.1	k
R_2 / R_1	Resistance ratio		4.2	4.7	5.1	
f_T	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		150		MHz

TYPICAL CHARACTERISTICS





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