

RT1P440X SERIES

Transistor

Transistor With Resistor

For Switching Application

Silicon PNP Epitaxial Type

DESCRIPTION

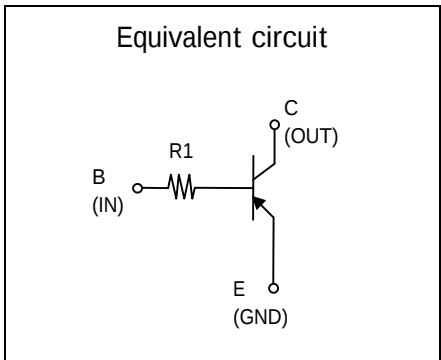
RT1P440X is a one chip transistor with built-in bias resistor,NPN type is RT1N440X.

FEATURE

- Built-in bias resistor ($R1=47k\Omega$).

APPLICATION

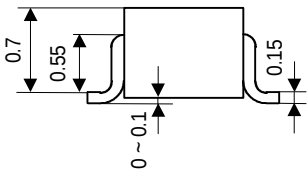
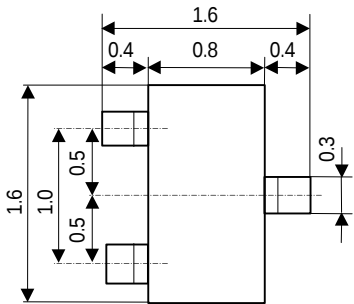
Inverted circuit,switching circuit,interface circuit, driver circuit.



OUTLINE DRAWING

UNIT : mm

RT1P440U



JEITA: -

JEDEC: -

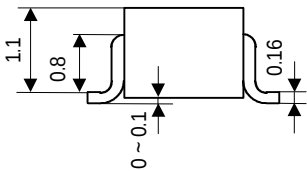
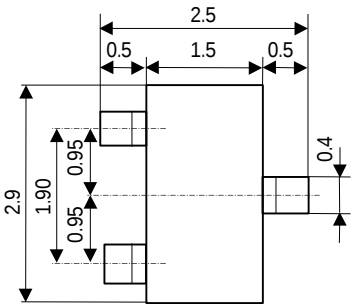
Terminal Connector

: Base

: Emitter

: Collector

RT1P440C



JEITA: SC-59

JEDEC: Similar to TO-236

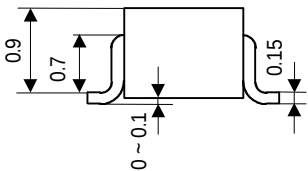
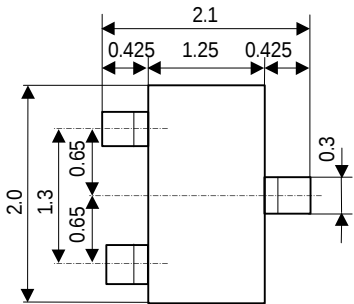
Terminal Connector

: Base

: Emitter

: Collector

RT1P440M



JEITA: SC-70

JEDEC: -

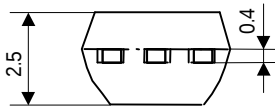
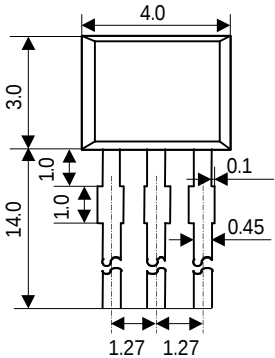
Terminal Connector

: Base

: Emitter

: Collector

RT1P440S



JEITA: -

JEDEC: -

Terminal Connector

: Emitter

: Collector

: Base

RT1P440X SERIES

Transistor

Transistor With Resistor

For Switching Application

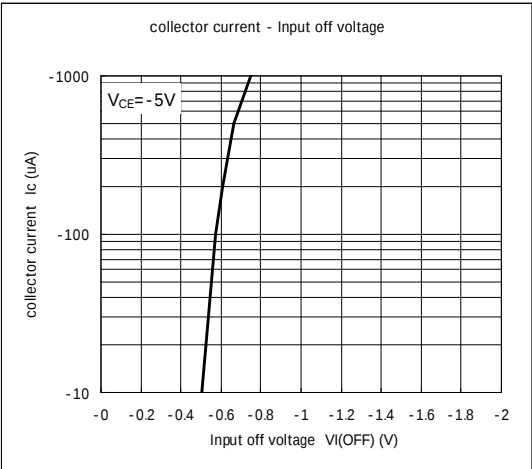
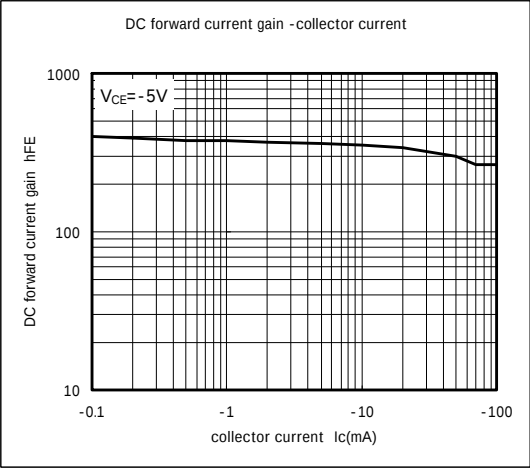
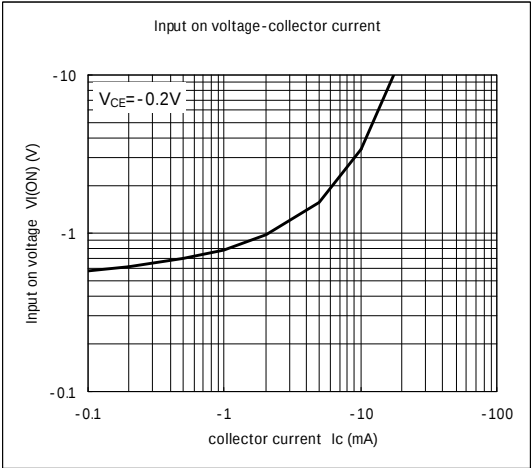
Silicon PNP Epitaxial Type

MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1P440U	RT1P440M	RT1P440C	RT1P440S	
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	$V_{CE} = -5V, I_C = -1mA$	100			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -10mA, I_B = -0.5mA$			-0.3	V
R_1	Input resistance		33	47	61	$k\Omega$
f_T	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		150		MHz





Marketing division, Marketing planning department

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