RT1N432X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

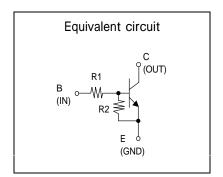
RT1N432X is a one chip transistor with built-in bias resistor,PNP type is RT1P432X.

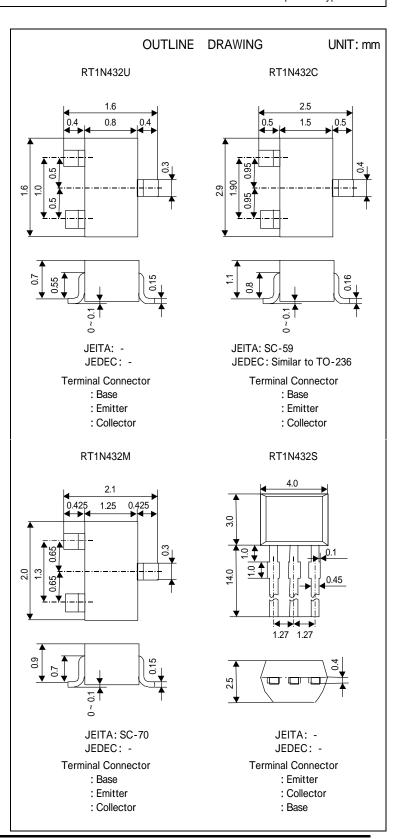
FEATURE

•Built-in bias resistor (R1=4.7k ,R2=10k).

APPLICATION

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





ISAHAYA ELECTRONICS CORPORATION

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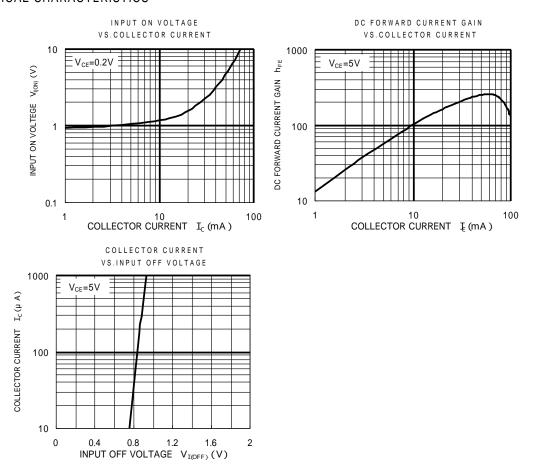
MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				UNIT
		RT1N432U	RT1N432M	RT1N432C	RT1N432S	UNIT
V _{CBO}	Collector to Base voltage	50				
V _{EBO}	Emitter to Base voltage	7				
V _{CEO}	Collector to Emitter voltage	50				
Ic	Collector current	100				
I _{CM}	Peak Collector current	200				
P _c	Collector dissipation(Ta=25)	150	20	00	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	UNIT
$V_{(BR)CEO}$	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 $_{C}$ =10mA	30			-
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = 10$ mA , $I_{B} = 0.5$ mA		0.1	0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =0.2V , I_{C} =5mA		1.0	1.8	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5 V , I_{C} =100 μ A	0.5	0.8		V
R ₁	Input resistance		3.3	4.7	6.1	k
R_2/R_1	Resistance ratio		1.7	2.1	2.6	
f _T	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$		200		MHz

TYPICAL CHARACTERISTICS





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