RT1N240X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

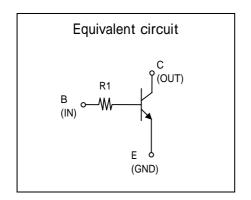
RT1N240X is a one chip transistor with built-in bias resistor,PNP type is RT1P240X.

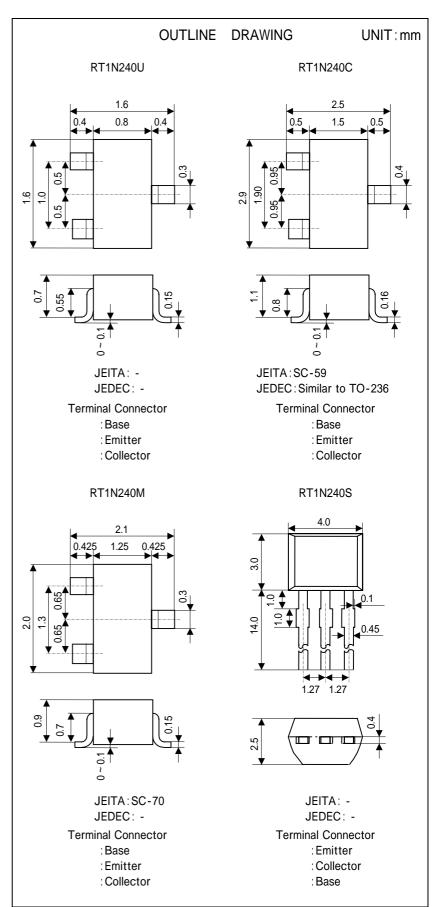
FEATURE

·Built-in bias resistor (R1=22k).

APPLICATION

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





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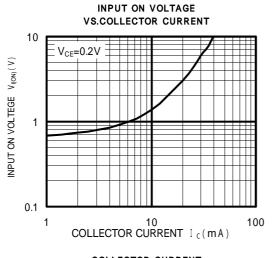
MAXIMUM RATING (Ta=25)

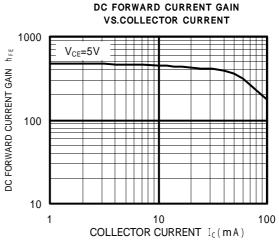
SYMBOL	PARAMETER	RATING				UNIT
		RT1N240U	RT1N240M	RT1N240C	RT1N240S	UNIT
V _{CBO}	Collector to Base voltage	50				V
V _{EBO}	Emitter to Base voltage	6				V
V _{CEO}	Collector to Emitter voltage	50				V
Ιc	Collector current	100				mA
IcM	Peak Collector current	200			mA	
P _C	Collector dissipation(Ta=25)	150	20	00	450	mW
Тj	Junction temperature	+150	+150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ + 150			

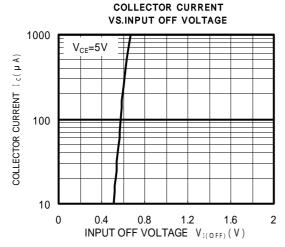
ELECTRICAL CHARACTERISTICS (Ta=25)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	ONIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=100 \mu A$, $R_{BE}=$	50			V
І сво	Collector cut off current	$V_{CB}=50V$, $I_{E}=0$			0.1	μΑ
h _{FE}	DC forward current gain	$V_{CE}=5V$, $I_{C}=1mA$	100			-
V _{CE(sat)}	C to E saturation voltage	$I_C = 10$ mA , $I_B = 0.5$ mA			0.3	V
R ₁	Input resistance		15	22	29	k
f _T	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$		200		MHz

TYPICAL CHARACTERISTICS









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