RT1N250X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

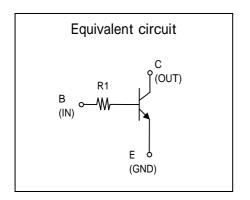
RT1N250X is a one chip transistor with built-in bias resistor,PNP type is RT1P250X.

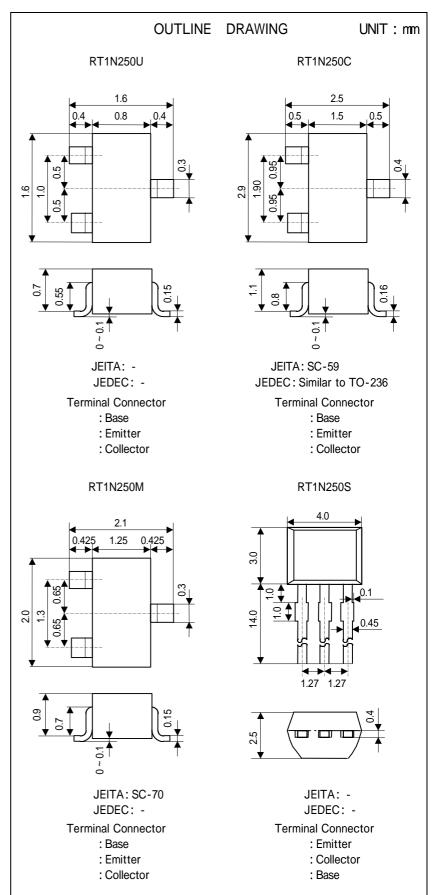
FEATURE

·Built-in bias resistor (R1=200k).

APPLICATION

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





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MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING				
		RT1N250U	RT1N250M	RT1N250C	RT1N250S	UNIT
V _{CBO}	Collector to Base voltage	50				
V _{EBO}	Emitter to Base voltage	6				
V_{CEO}	Collector to Emitter voltage	50				
Ι _c	Collector current	100				
I _{CM}	Peak Collector current	200				
P_{c}	Collector dissipation(Ta=25)	150	20	0	450	mW
Tj	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	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	μΑ
h _{FE}	DC forward current gain	$V_{CE}=5V$, $I_{C}=1mA$	100			-
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = 0.5 \text{mA}$, $I_{B} = 0.05 \text{mA}$			0.3	V
R_1	Input resistance			200		k
f_T	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$		200		MHz



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