RT1P151X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

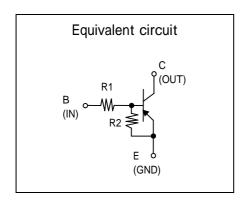
RT1P151X is a one chip transistor with built-in bias resistor,NPN type is RT1N151X.

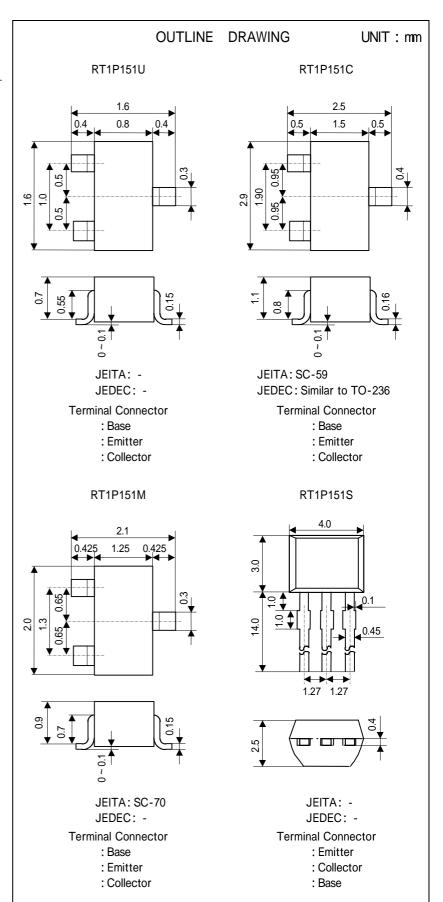
FEATURE

•Built-in bias resistor (R1=100k ,R2=100k).

APPLICATION

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





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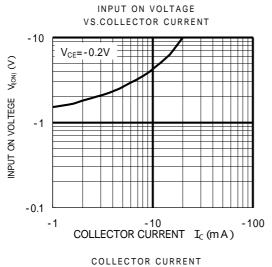
MAXIMUM RATING (Ta=25)

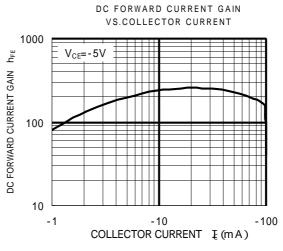
SYMBOL	PARAMETER	RATING				UNIT
		RT1P151U	RT1P151M	RT1P151C	RT1P151S	UNIT
V_{CBO}	Collector to Base voltage	-50				
V _{EBO}	Emitter to Base voltage	-10				
V_{CEO}	Collector to Emitter voltage	-50				
Ι _c	Collector current	-100				
I _{CM}	Peak Collector current	-200				
P_{c}	Collector dissipation(Ta=25)	150	20	00	450	mW
Tj	Junction temperature	+150	+150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ + 150			

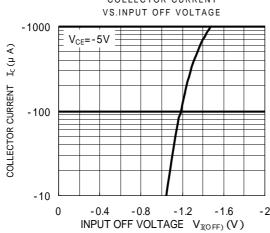
ELECTRICAL CHARACTERISTICS (Ta=25)

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	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V , I $_{C}$ =-5mA	82			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -5mA$, $I_B = -0.25mA$		-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V , I_{C} =-5mA		-2.4	-8.8	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V , I $_{C}$ =-100 μ A	-0.8	-1.1		V
R ₁	Input resistance			100		k
R_2/R_1	Resistance ratio		0.8	1.0	1.2	
f _T	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$		150		MHz

TYPICAL CHARACTERISTICS









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