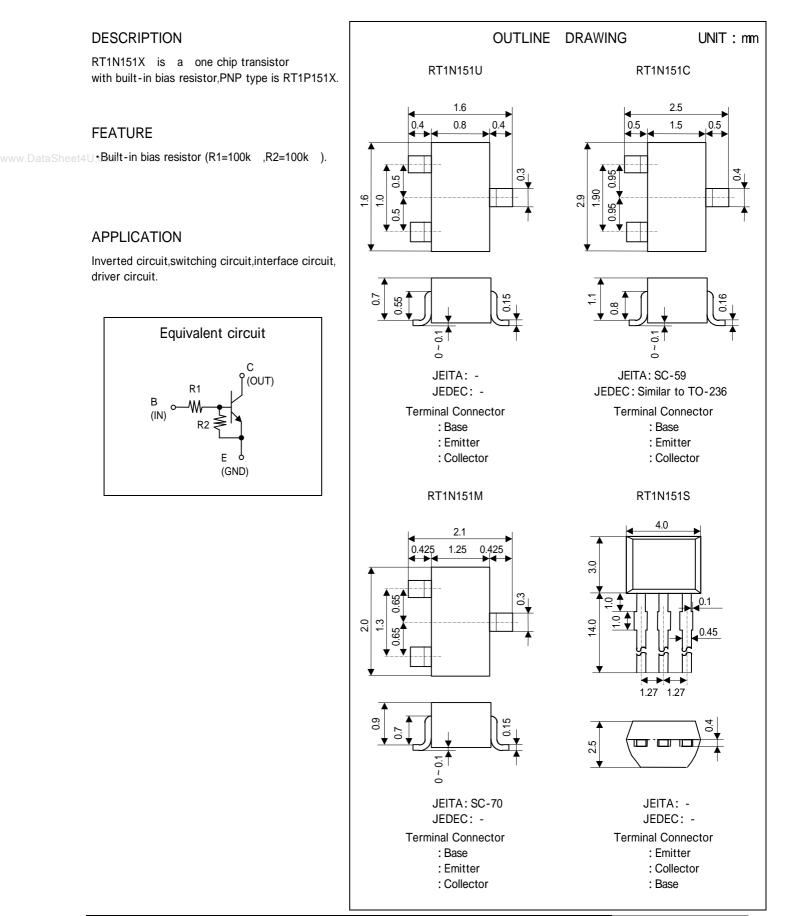
RT1N151X SERIES

Transistor Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N151X SERIES

Transistor

Transistor With Resistor For Switching Application

Silicon NPN Epitaxial Type

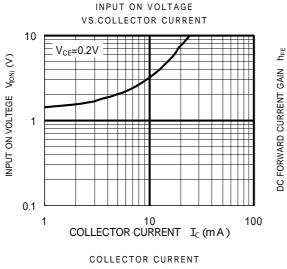
MAXIMUM RATING (Ta=25)

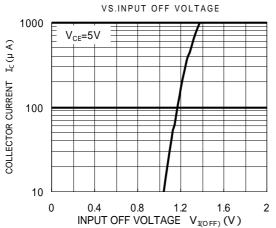
SYMBOL	PARAMETER	RATING				
		RT1N151U	RT1N151M	RT1N151C	RT1N151S	UNIT
V _{CBO}	Collector to Base voltage	50				
V _{EBO}	Emitter to Base voltage	10				
V _{CEO}	Collector to Emitter voltage	50				
I _c	Collector current	100				
I _{CM}	Peak Collector current	200				
P _c	Collector dissipation(Ta=25)	150	2	00	450	mW
^{t4} U.co m j	Junction temperature	+150	+150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ +150			

ELECTRICAL CHARACTERISTICS (Ta=25)

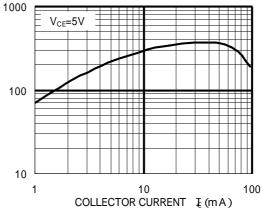
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	Ι _c =100 μ A , R _{BE} =	50			V
I _{CBO}	Collector cut off current	V _{CB} =50V , I _E =0			0.1	μA
h _{FE}	DC forward current gain	V_{CE} =5V , I _C =5mA	82			-
V _{CE(sat)}	C to E saturation voltage	I _с =5mA , I _в =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		200		MHz

TYPICAL CHARACTERISTICS













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