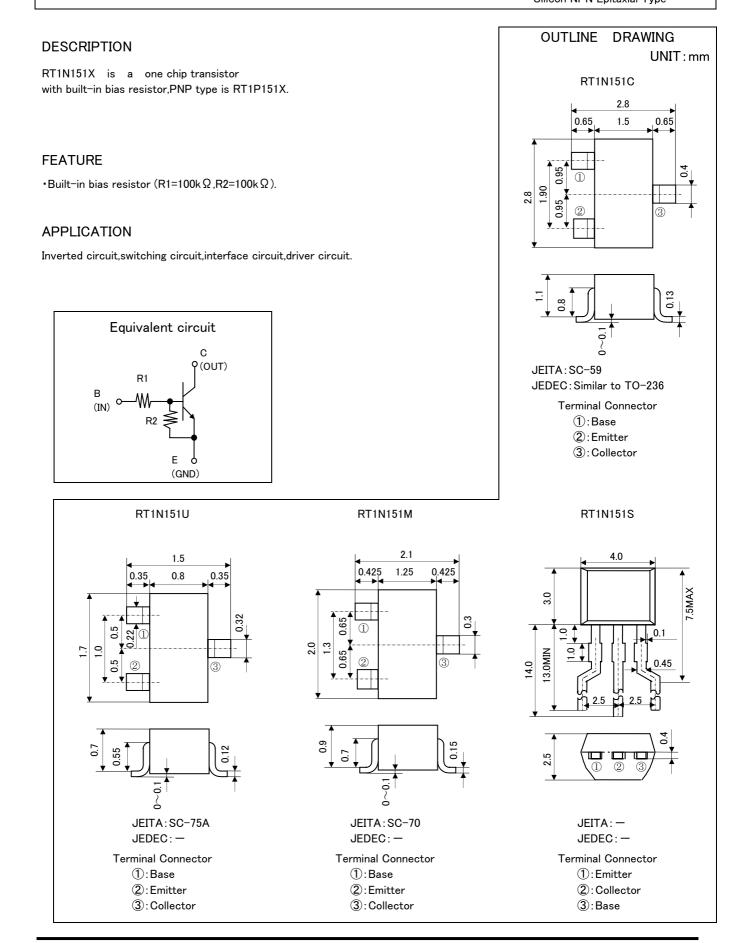
RT1N151X SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N151X SERIES

Transistor With Resistor For Switching Application

Silicon NPN Epitaxial Type

MARKING

RT1N151C RT1N151M RT1N151U	RT1N151S
N A type name	type name Lot No.

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1N151U	RT1N151M	RT1N151C	RT1N151S	UNIT
V _{CBO}	Collector to Base voltage	50				V
V _{EBO}	Emitter to Base voltage	10				V
V _{CEO}	Collector to Emitter voltage	50				V
V _{IN}	Input voltage	40				V
Ι _c	Collector current	100				mA
I _{CM}	Peak Collector current	200			mA	
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150			°C	
Tstg	Storage temperature	-55~+150				°C

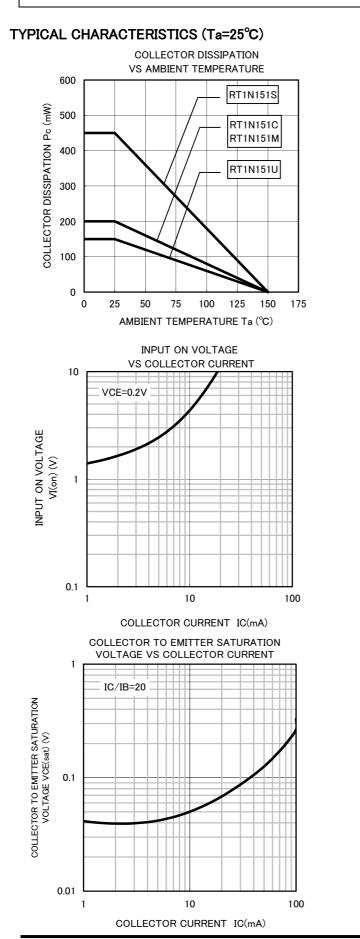
ELECTRICAL CHARACTERISTICS (Ta=25°C)

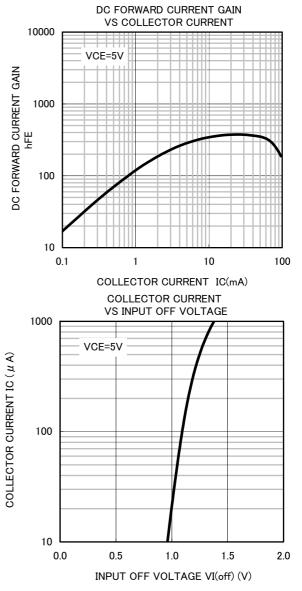
SYMBOL PARAMETER	DADAMETED	TEST CONDITION	LIMIT			UNIT
	TEST CONDITION	MIN	TYP	MAX	UNIT	
$V_{(BR)CEO}$	C to E break down voltage	$I_{c}=100 \mu$ A, $R_{BE}=\infty$	50	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0	1	1	0.1	μA
I _{EBO}	Emitter cut off current	V_{EB} =5V, I _c =0	18.8	25	36.3	μA
h _{FE}	DC forward current gain	V_{ce} =5V, I _c =5mA	82	1	Ι	—
V _{CE(sat)}	C to E saturation voltage	I _c =5mA, I _B =0.25mA			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 resistor	-	-	100	-	kΩ
R_2 / R_1	Resistor ratio	—	0.8	1.0	1.2	—
f⊤	Gain band width product	V _{CE} =6V, I _E =-10mA		200		MHz

(Transistor)

RT1N151X SERIES

〈Transistor〉 Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type





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