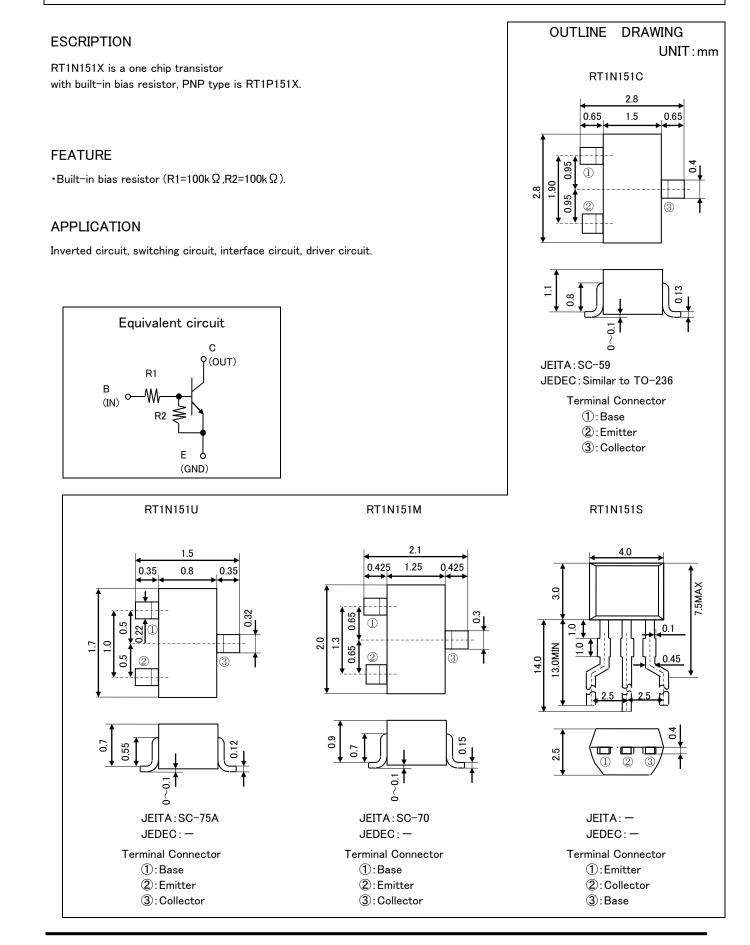
RT1N151X SERIES

(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

MARKING

RT1N151C RT1N151M RT1N151U	RT1N151S
Type name	type name Lot N0.

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1N151U	RT1N151M	RT1N151C	RT1N151S	UNIT
V _{сво}	Collector to Base voltage	50				V
V _{EBO}	Emitter to Base voltage	10				V
V _{CEO}	Collector to Emitter voltage	50				V
VIN	Input voltage	40				V
Ιc	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

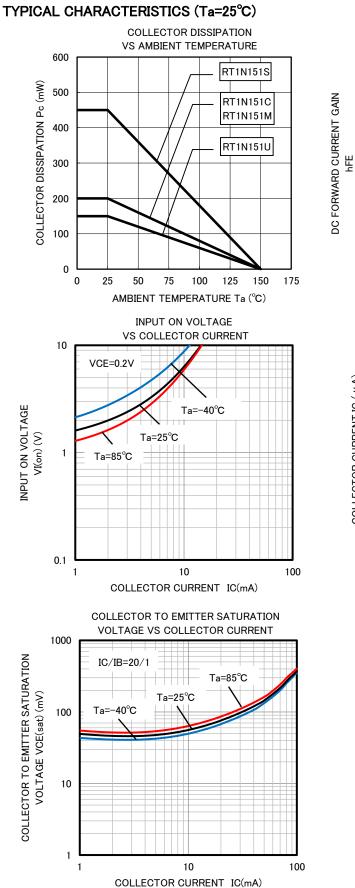
ELECTRICAL CHARACTERISTICS (Ta=25°C)

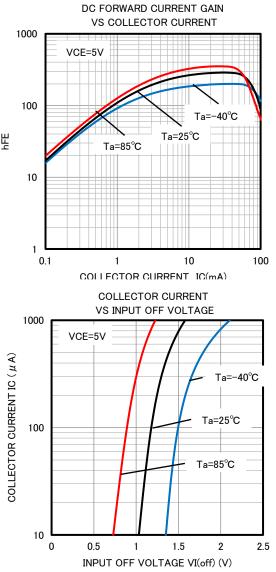
SYMBOL PARAMETER	TEST CONDITION	LIMIT			UNIT	
	TEST CONDITION		TYP	MAX	UNIT	
$V_{(BR)CEO}$	C to E breakdown voltage	$I_{C}=100 \ \mu A, R_{BE}=\infty$	50	—	_	V
I _{CBO}	Collector cut off current	V_{CB} =50V, I_E =0	—	—	0.1	μA
I _{EBO}	Emitter cut off current	$V_{EB}=5V, I_{C}=0$	18.8	25.0	36.3	μA
h _{FE}	DC forward current gain	V _{CE} =5V, I _C =5mA	82	—	-	—
$V_{\text{CE}(\text{sat})}$	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
$R_2 \swarrow R_1$	Resistor ratio	—	0.8	1.0	1.2	—
f⊤	Gain band width product	$V_{CE}=6V, I_{E}=-10mA$	—	200	_	MHz

RT1N151X SERIES

Transistor With Resistor For Switching Application

Silicon NPN Epitaxial Type





ISAHAYA ELECTRONICS CORPORATION

〈Transistor〉

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