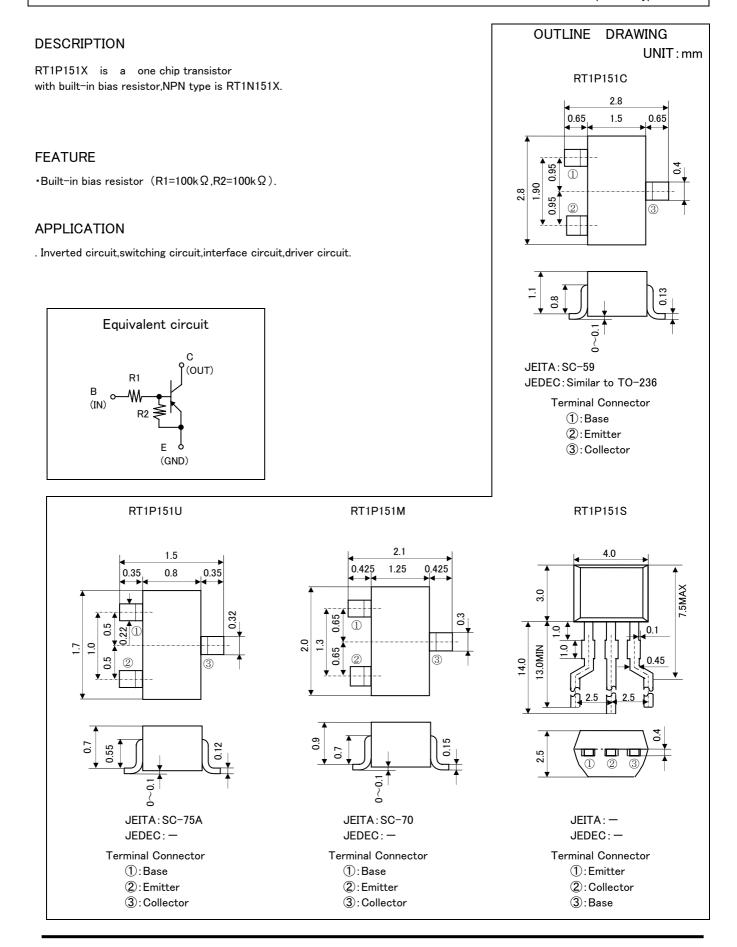
## **RT1P151X SERIES**

(Transistor)

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

# RT1P151X SERIES

〈Transistor〉

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

### MARKING

RT1P151C RT1P151M RT1P151U	RT1P151S
PA type name	type name Lot No.

### MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1P151U	RT1P151M	RT1P151C	RT1P151S	UNIT
V <sub>CBO</sub>	Collector to Base voltage	-50				V
V <sub>EBO</sub>	Emitter to Base voltage	-10				V
V <sub>CEO</sub>	Collector to Emitter voltage	-50				V
V <sub>IN</sub>	Input voltage	-40				V
I <sub>c</sub>	Collector current	-100				mA
I <sub>CM</sub>	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

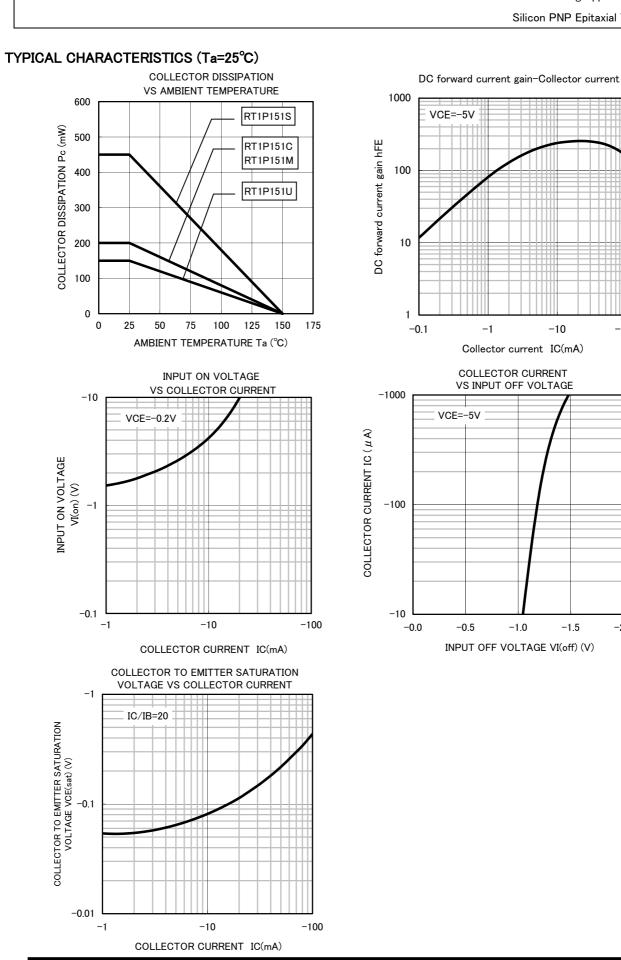
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

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 <sub>CBO</sub>	Collector cut off current	V <sub>CB</sub> =-50V, I <sub>E</sub> =0	—	—	-0.1	μA
I <sub>EBO</sub>	Emitter cut off current	$V_{EB}$ =-5V, I <sub>c</sub> =0	-18.8	-25	-36.3	μA
h <sub>FE</sub>	DC forward current gain	V <sub>CE</sub> =-5V, I <sub>C</sub> =-5mA	82	—	—	_
V <sub>CE(sat)</sub>	C to E saturation voltage	I <sub>c</sub> =–5mA, I <sub>B</sub> =–0.25mA	—	-0.1	-0.3	V
V <sub>I(ON)</sub>	Input on voltage	$V_{ce}$ =-0.2V, I <sub>c</sub> =-5mA	—	-2.4	-8.8	V
$V_{I(OFF)}$	Input off voltage	$V_{ce}$ =-5V, I <sub>c</sub> =-100 $\mu$ A	-0.8	-1.1	—	V
$R_1$	Input resistor	-	70	100	130	kΩ
$R_2 / R_1$	Resistor ratio	-	0.8	1.0	1.2	_
f⊤	Gain band width product	V <sub>CE</sub> =-6V, I <sub>E</sub> =10mA	_	150	_	MHz

## **RT1P151X SERIES**

(Transistor) Transistor With Resistor For Switching Application

Silicon PNP Epitaxial Type





-10

Collector current IC(mA) COLLECTOR CURRENT

VS INPUT OFF VOLTAGE

-1.0

INPUT OFF VOLTAGE VI(off) (V)

-1.5

-2.0

-100

-1

-0.5

### ISAHAYA ELECTRONICS CORPORATION

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