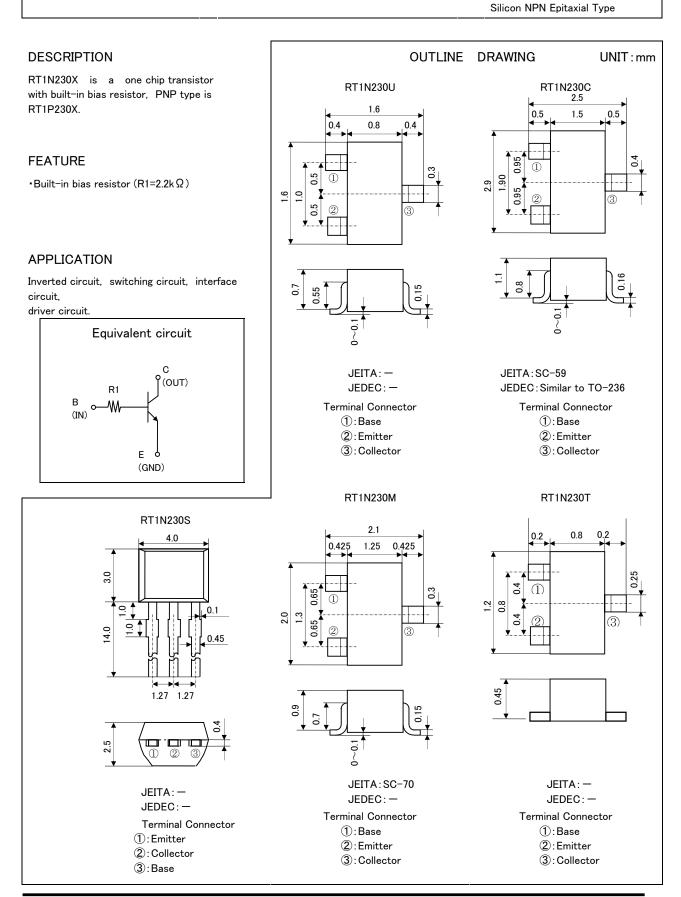
# RT1N230X SERIES

(Transistor)

Transistor With Resistor

For Switching Application



ISAHAYA ELECTRONICS CORPORATION

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# RT1N230X SERIES

(Transistor)

Transistor With Resistor

For Switching Application

Silicon NPN Epitaxial Type

## MAXIMUM RATING (Ta=25°C)

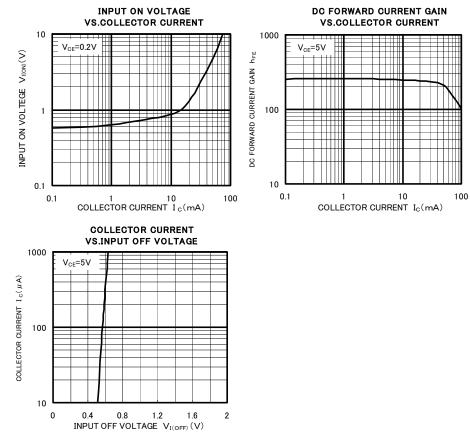
SYMBOL	PARAMETER	RATING					
		RT1N230T	RT1N230U	RT1N230M	RT1N230C	RT1N230S	UNIT
V <sub>CBO</sub>	Collector to Base voltage	50					
V <sub>EBO</sub>	Emitter to Base voltage	6					V
V <sub>CEO</sub>	Collector to Emitter voltage	50					V
Ι <sub>c</sub>	Collector current	100					
I <sub>CM</sub>	Peak Collector current	200					mA
Pc	Collector dissipation(Ta=25°C)	125 (※ )	150	2	00	450	mW
Tj	Junction temperature	+125	25 +150				°C
Tstg	Storage temperature	-55~+125	-55~+125 -55~+150				°C

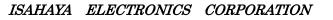
(% ) package mounted on  $9\text{mm}\times19\text{mm}\times1\text{mm}\,$  glass-epoxy substrate.

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

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I <sub>c</sub> =100 μ A, R <sub>BE</sub> =∞	50			V
I <sub>CBO</sub>	Collector cut off current	V <sub>CB</sub> =50V, I <sub>E</sub> =0			0.1	μA
h <sub>FE</sub>	DC forward current gain	$V_{ce}$ =5V, I <sub>c</sub> =1mA	100			—
V <sub>CE(sat)</sub>	C to E saturation voltage	I <sub>c</sub> =10mA, I <sub>B</sub> =0.5mA			0.3	V
R <sub>1</sub>	Input resistance		1.5	2.2	2.8	kΩ
f <sub>T</sub>	Gain band width product	V <sub>CE</sub> =6V, I <sub>E</sub> =-10mA		200		MHz

### **TYPICAL CHARACTERISTICS**







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