# RT5N230C-T150

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

#### DESCRIPTION

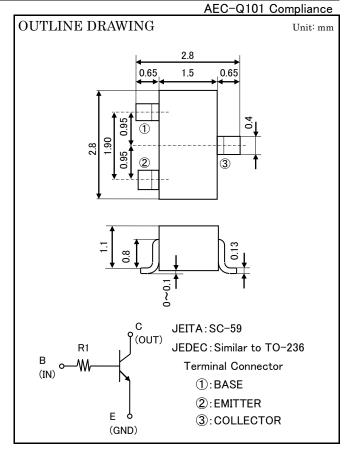
RT5N230C is a one chip transistor with built-in bias resistor, PNP type is RT5P230C.

### FEATURE

Built-in bias resistor  $(R_1=2.2k \Omega)$ High collector current (Ic=0.5A) Mini package for easy mounting

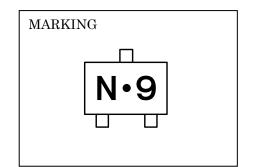
#### APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



### MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
Vcbo	Collector to Base voltage	50	V	
$V_{\rm EBO}$	Emitter to Base voltage	5	V	
Vceo	Collector to Emitter voltage	50	V	
Ic	Collector current	500	mA	
Pc	Collector dissipation(Ta= $25^{\circ}$ C)	200	mW	
$T_{j}$	Junction temperature	+150	°C	
$\mathrm{T}_{\mathrm{stg}}$	Storage temperature	-55~+150	°C	



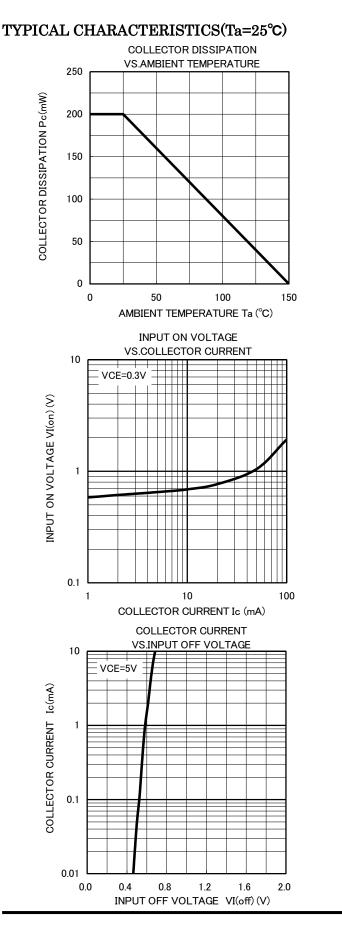
# ELECTRICAL CHARACTERISTICS (Ta=25°C)

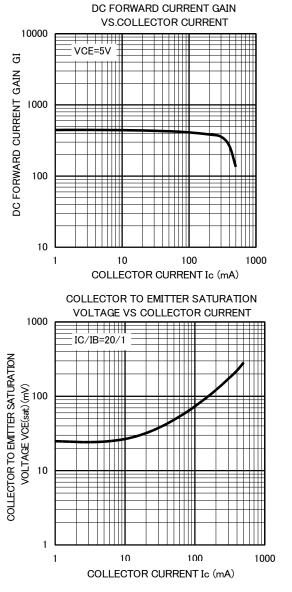
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNII
Vcbo	C to B breakdown voltage	$I_{C}=50 \mu A$	50	—	—	V
Vceo	C to E breakdown voltage	Ic=1mA	50	_	_	V
Vebo	E to B breakdown voltage	$I_{E}=50  \mu  A$	5	_	_	V
$\mathbf{I}_{\mathrm{CBO}}$	Collector cut off current	$V_{CB}$ =50V	—	—	0.5	μA
Iebo	Emitter cut off current	$V_{\rm EB}$ =4V	_	_	0.5	μA
$V_{CE(sat)}$	C to E saturation voltage	Ic=50mA, I <sub>B</sub> =2.5mA	—	—	0.3	V
GI	DC forward current gain	V <sub>CE</sub> =5V, I <sub>C</sub> =50mA	100	250	600	_
$R_1$	Input resistance	—	1.54	2.2	2.86	kΩ
$\mathbf{f}_{\mathrm{T}}$	Gain band width product	$V_{CE}$ =10V, I <sub>E</sub> =-50mA, f=100MHz	_	200	_	MHz

# ISAHAYA ELECTRONICS CORPORATION

RT5N230C-T150

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type





## ISAHAYA ELECTRONICS CORPORATION

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