RT5N230C

Unit: mm

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.

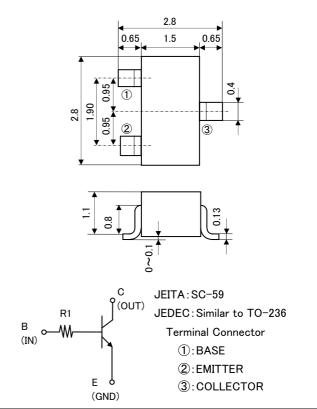
FEATURE

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

APPLICATION

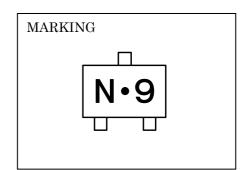
Inverted circuit, Switching circuit, Interface circuit, Driver circuit

OUTLINE DRAWING



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	50	V	
Vebo	Emitter to Base voltage	5	V	
Vceo	Collector to Emitter voltage	50	V	
\mathbf{I}_{C}	Collector current	500	mA	
Pc	Collector dissipation(Ta= 25° C)	200	mW	
Tj	Junction temperature	150	°C	
$\mathrm{T}_{\mathrm{stg}}$	Storage temperature	-55~+150	°C	



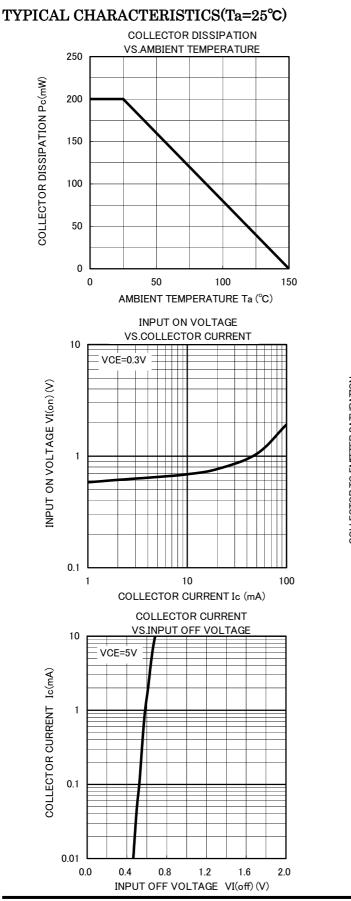
ELECTRICAL CHARACTERISTICS (Ta=25°C)

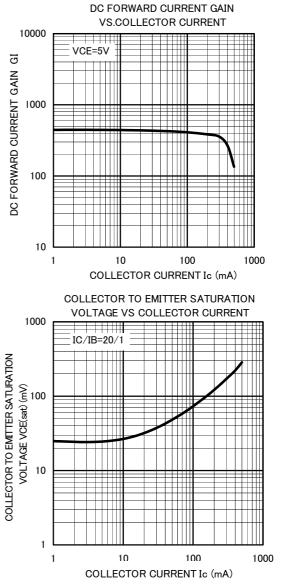
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			
			MIN	TYP	MAX	UNIT
Vcbo	C to B break down voltage	Ic=50 μ A	50	_	—	V
Vceo	C to E break down voltage	I _C =1mA	50	—	—	V
$V_{\rm EBO}$	E to B break down voltage	$I_E=50 \mu A$	5	—	—	V
Ісво	Collector cut off current	V _{CB} =50V	-	—	0.5	μA
I _{EBO}	Emitter cut off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

ISAHAYA ELECTRONICS CORPORATION

RT5N230C

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type





ISAHAYA ELECTRONICS CORPORATION



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