

RT5P230C

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

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

FEATURE

Built-in bias resistor ($R_1=2.2K\Omega$)

High collector current ($I_c=0.5A$)

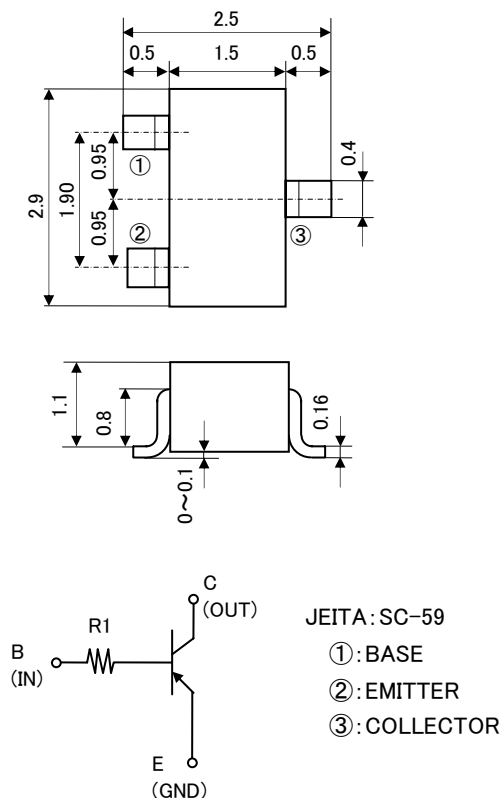
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit, Interface circuit,
Driver circuit

OUTLINE DRAWING

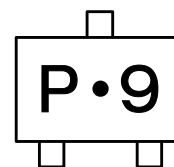
Unit: mm



MAXIMUM RATING ($T_a=25^\circ C$)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage	-50	V
V_{EBO}	Emitter to Base voltage	-5	V
V_{CEO}	Collector to Emitter voltage	-50	V
I_C	Collector current	-500	mA
P_C	Collector dissipation($T_a=25^\circ C$)	200	mW
T_j	Junction temperature	150	$^\circ C$
T_{stg}	Storage temperature	-55~+150	$^\circ C$

MARKING



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ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
V _{CBO}	C to B break down voltage	I _C =-50 μA	-50	—	—	V
V _{CEO}	C to E break down voltage	I _C =-1mA	-50	—	—	V
V _{EBO}	E to B break down voltage	I _E =-50 μA	-5	—	—	V
I _{CBO}	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
hFE	DC forward current gain	V _{CE} =-5V, I _E =-50mA	100	250	600	—
R _i	Input resistance		1.54	2.2	2.86	KΩ
f _T	Gain band width product	V _{CE} =-10V, I _E =50mA, f=100MHz	—	150	—	MHz



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