

RT5P227C

Transistor With Resistor
For Switching Application
Silicon PNP Epitaxial Type

DESCRIPTION

RT5P227C is a one chip transistor with built-in bias resistor.

FEATURE

Built-in bias resistor ($R_1=0.22k\Omega$, $R_2=4.7k\Omega$)

High collector current ($I_C=-0.5A$)

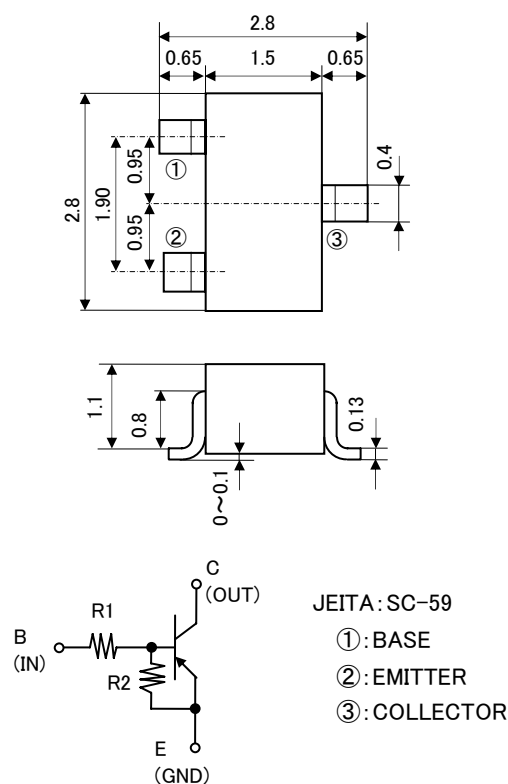
Mini package for easy mounting

APPLICATION

Inverted circuit, Switching circuit, Interface circuit,
Driver circuit

OUTLINE DRAWING

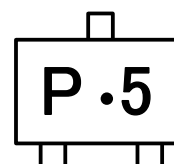
Unit: mm



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
V_{IN}	Input voltage	-5	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



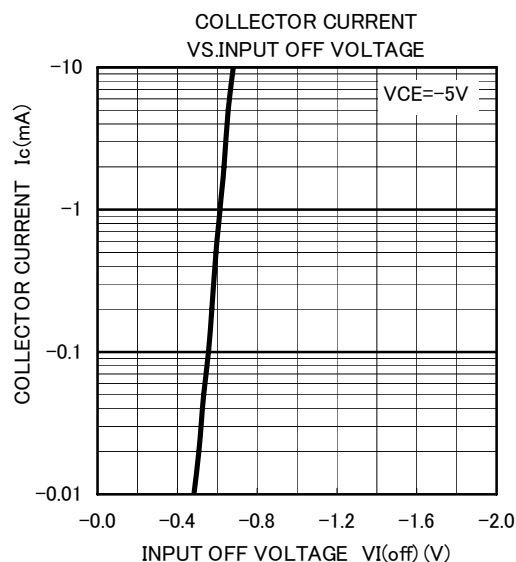
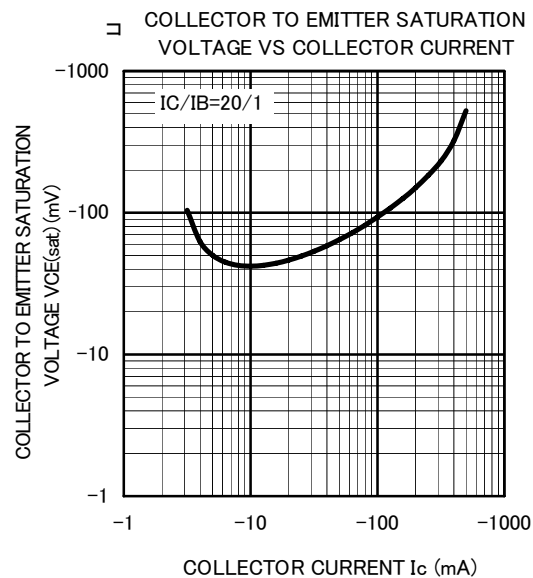
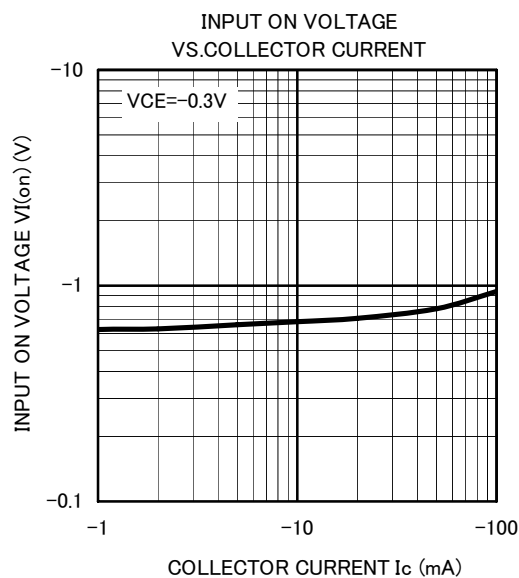
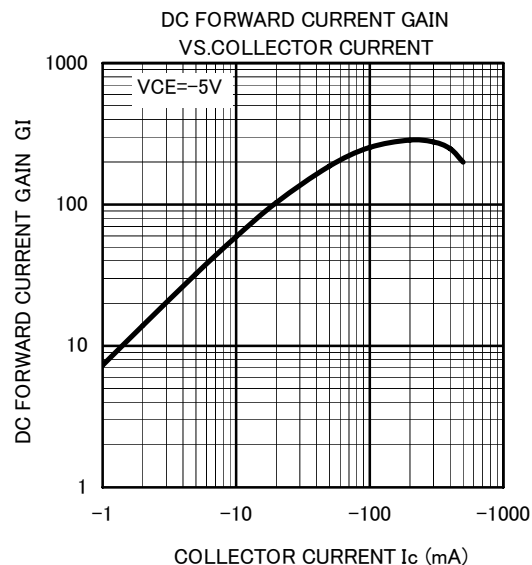
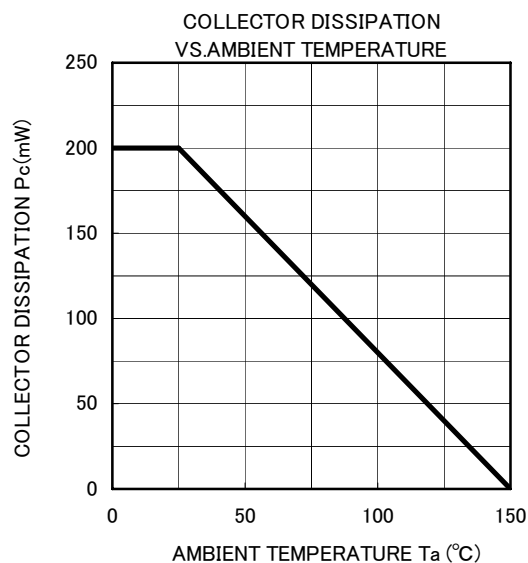
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
$V_{I(on)}$	Input on voltage	$V_{CE}=-0.3V$, $I_C=-30mA$	—	—	-2	V
$V_{I(off)}$	Input off voltage	$V_{CE}=-5V$, $I_C=-100\mu A$	-0.5	—	—	V
$V_{CE(sat)}$	C to E saturation voltage	$I_C=-50mA$, $I_B=-2.5mA$	—	-0.1	-0.3	V
I_{BE}	B to E current	$V_{BE}=-5V$	—	—	-45	mA
I_{CES}	Collector cut off current	$V_{CE}=-50V$, $V_{BE}=0V$	—	—	-0.5	μA
G_I	DC forward current gain	$V_{CE}=-5V$, $I_C=-50mA$	47	—	—	—
R_1	Input resistor	—	0.154	0.22	0.286	$k\Omega$
R_2/R_1	Resistor ratio	—	17.1	21.3	25.6	—
f_T	Gain band width product	$V_{CE}=-10V$, $I_E=5mA$, $f=100MHz$	—	250	—	MHz

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TYPICAL CHARACTERISTICS





Keep safety first in your circuit designs!

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