RT5P227C

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

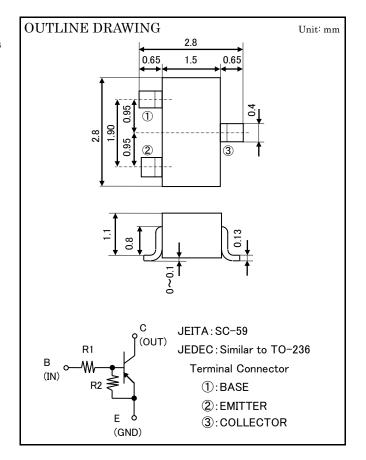
 $\rm RT5P227C$ is a one chip transistor with built-in bias resistor.

FEATURE

Built-in bias resistor (R_1 =0.22k Ω , R_2 =4.7k Ω) High collector current (Ic=-0.5A) Mini package for easy mounting

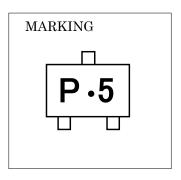
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	-50	V	
V_{EBO}	Emitter to Base voltage	-5	V	
$V_{\rm CEO}$	Collector to Emitter voltage	-50	V	
$V_{\rm IN}$	Input voltage	-5	V	
I_{C}	Collector current	-500	mA	
$P_{\rm C}$	Collector dissipation(Ta=25°C)	200	mW	
$T_{\rm j}$	Junction temperature	+150	လ	
$\mathrm{T}_{\mathrm{stg}}$	Storage temperature	-55~+150	°C	



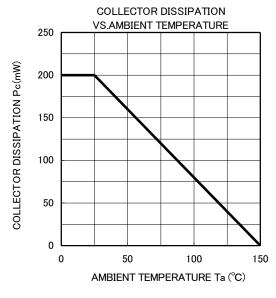
ELECTRICAL CHARACTERISTICS (Ta=25°C)

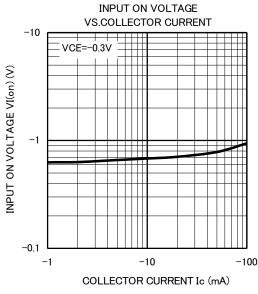
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			TINITO
SIMBOL			MIN	TYP	MAX	UNIT
V _{I(on)}	Input on voltage	V _{CE} =-0.3V, I _C =-30mA	_	_	-2	V
$V_{\rm I(off)}$	Input off voltage	V_{CE} =-5V, I_{C} =-100 μ A	-0.5	1	_	V
$V_{\mathrm{CE}(\mathrm{sat})}$	C to E saturation voltage	I _C =-50mA, I _B =-2.5mA	_	-0.1	-0.3	V
${ m I}_{ m BE}$	B to E current	V_{BE} =-5 V	_	1	-45	mA
I_{CES}	Collector cut off current	V_{CE} =-50V, V_{BE} =0V	_	-	-0.5	μΑ
$G_{\rm I}$	DC forward current gain	V_{CE} =-5V, I_{C} =-50mA	47	ı	_	_
R_1	Input resistor	_	0.154	0.22	0.286	kΩ
R_2/R_1	Resistor ratio	_	17.1	21.3	25.6	
\mathbf{f}_{T}	Gain band width product	V_{CE} =-10V, I_{E} =5mA, f=100MHz	_	150	_	MHz

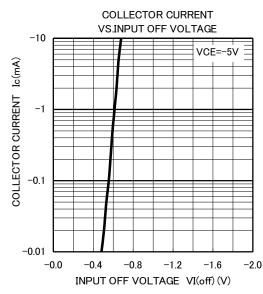
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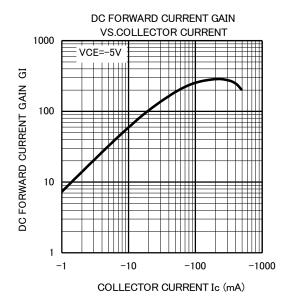
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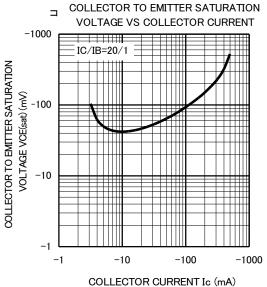
TYPICAL CHARACTERISTICS











Keep safety first in your circuit designs!

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