RT5P430C

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

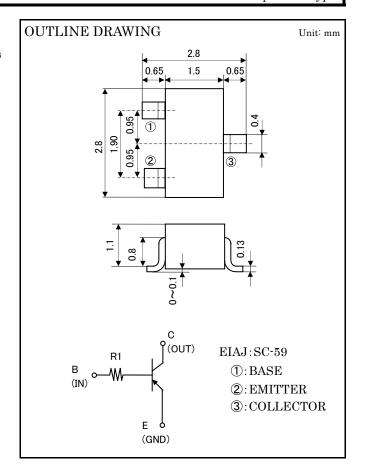
RT5P430C is a one chip transistor with built-in bias resistor, NPN type is RT5N430C.

FEATURE

Built-in bias resistor $(R_1=4.7k\,\Omega)$ High collector current (Ic=-0.5A) Mini package for easy mounting

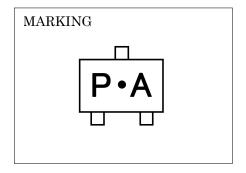
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER RATING		UNIT	
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	
$P_{\rm C}$	Collector dissipation(Ta=25°C)	200	mW	
$T_{\rm j}$	Junction temperature	150	ပ	
${ m T_{stg}}$	Storage temperature	-55~+150	င	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNII
V_{CBO}	C to B breakdown voltage	I_C =-50 μ A	-50	_	_	V
V_{CEO}	C to E breakdown voltage	I _C =-1mA	-50	_	_	V
V_{EBO}	E to B breakdown voltage	$I_E=-50 \mu A$	-5	_	_	V
I_{CBO}	Collector cut off current	V_{CB} =-50 V	1	_	-0.5	μΑ
I_{EBO}	Emitter cut off current	V_{EB} =-4 V	1	_	-0.5	μΑ
$V_{\mathrm{CE}(\mathrm{sat})}$	C to E saturation voltage	I_C =-50mA, I_B =-2.5mA	_	_	-0.3	V
$G_{\rm I}$	DC forward current gain	V_{CE} =-5V, I_{C} =-50mA	100	250	600	1
R_1	Input resistor	_	3.29	4.7	6.11	$k\Omega$
\mathbf{f}_{T}	Gain band width product	V_{CE} =-10V, I_{E} =50mA, f=100MHz	_	150	_	MHz



Keep safety first in your circuit designs!

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