RT5N430C

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

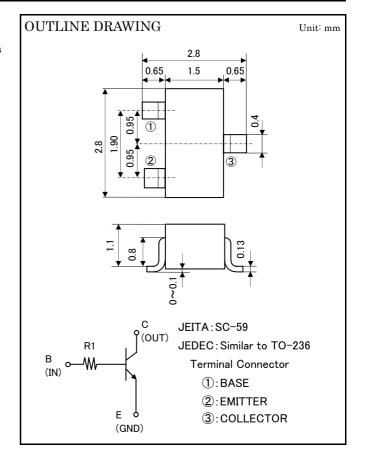
RT5N430C is a one chip transistor with built-in bias resistor, PNP type is RT5P430C.

FEATURE

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

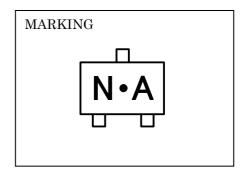
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	50	٧	
V_{EBO}	Emitter to Base voltage	5	٧	
$V_{\rm CEO}$	Collector to Emitter voltage	50	V	
I_{C}	Collector current	500	mA	
$P_{\rm C}$	Collector dissipation(Ta=25°C)	200	mW	
Tj	Junction temperature	+150	°C	
$T_{ m stg}$	Storage temperature	-55 ~ +150	°C	

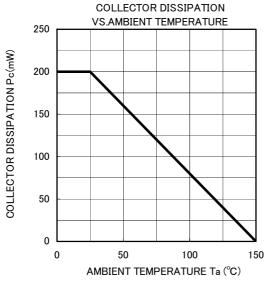


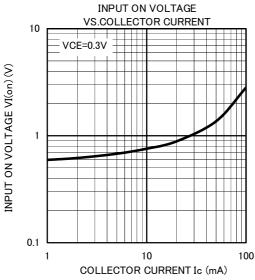
ELECTRICAL CHARACTERISTICS (Ta=25°C)

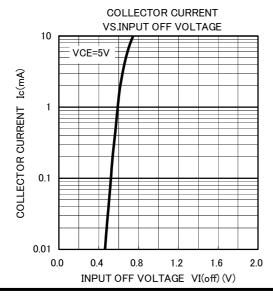
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			TINITO
			MIN	TYP	MAX	UNIT
V _{CBO}	C to B break down voltage	I _C =50 μ A	50	_	_	٧
V _{CEO}	C to E break down voltage	I _C =1mA	50	1	1	٧
V_{EBO}	E to B break down voltage	I _E =50 μ A	5	_	_	٧
I_{CBO}	Collector cut off current	V _{CB} =50V	_	_	0.5	μΑ
I_{EBO}	Emitter cut off current	V _{EB} =4V		1	0.5	μΑ
V _{CE(sat)}	C to E saturation voltage	I _C =50mA, I _B =2.5mA	_	_	0.3	٧
$G_{\rm I}$	DC forward current gain	V_{CE} =5V, I_{E} =50mA	100	250	600	_
R_1	Input resistor	_	3.29	4.7	6.11	kΩ
\mathbf{f}_{T}	Gain band width product	V_{CE} =10V, I_{E} =-50mA, f=100MHz		200		MHz

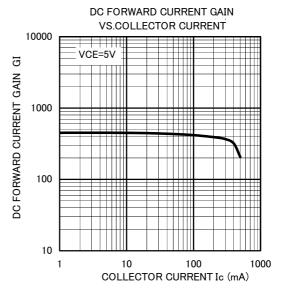
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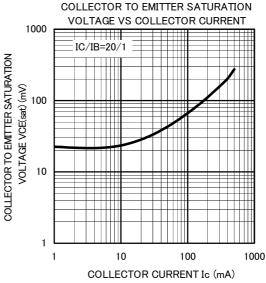
TYPICAL CHARACTERISTICS(Ta=25°C)













Keep safety first in your circuit designs!

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