RT5P140C

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

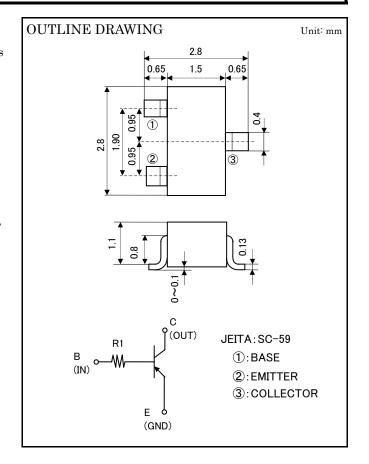
RT5P140C is a one chip transistor with built-in bias resistor, NPN type is RT5N140C.

FEATURE

Built-in bias resistor ($R_1=10k\,\Omega$) High collector current (Ic=-0.5A) Mini package for easy mounting

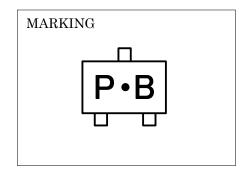
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C)

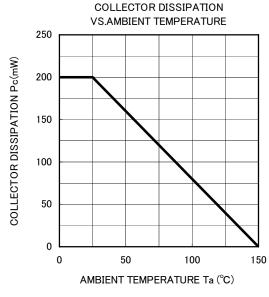
SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	-50	V	
V_{EBO}	Emitter to Base voltage	-5	V	
V_{CEO}	Collector to Emitter voltage -50		V	
I_{C}	Collector current	-500	mA	
Pc	Collector dissipation(Ta=25°C)	200	mW	
$T_{\rm j}$	Junction temperature	+150	°C	
$\mathrm{T}_{\mathrm{stg}}$	Storage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

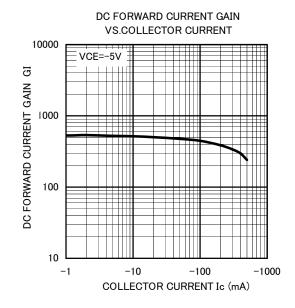


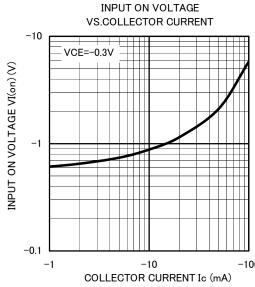
ELECTRICAL CHARACTERISTICS (Ta=25°C)

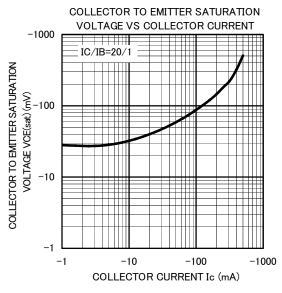
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			TINITO
			MIN	TYP	MAX	UNIT
V_{CBO}	C to B break down voltage	I _C =-50 μ A	-50		_	V
V_{CEO}	C to E break down voltage	I _C =-1mA	-50		_	V
V_{EBO}	E to B break down voltage	$I_E=-50 \mu A$	-5		_	V
I_{CBO}	Collector cut off current	V_{CB} =-50 V	_	_	-0.5	μΑ
I_{EBO}	Emitter cut off current	V_{EB} =-4 V	_	-	-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	_
R_1	Input resistor	_	7	10	13	kΩ
\mathbf{f}_{T}	Gain band width product	$V_{\rm CE}$ =-10V, $I_{\rm E}$ =50mA, f=100MHz	_	150	_	MHz

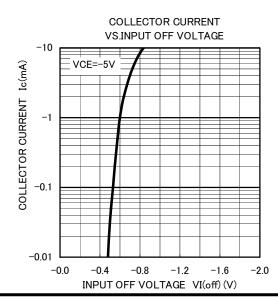
TYPICAL CHARACTERISTICS













Keep safety first in your circuit designs!

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