RT5P141C

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

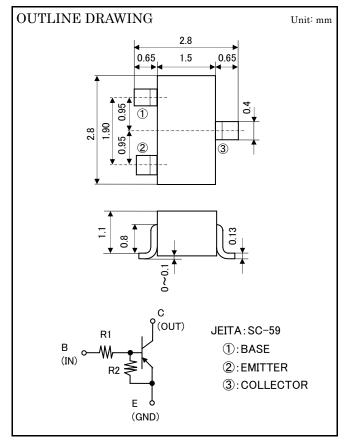
 $\rm RT5P141C$ is a one chip transistor with built-in bias resistor.

FEATURE

Built-in bias resistor $(R_1=10k\Omega, R_2=10k\Omega)$ High collector current (Ic=-0.5A) Mini package for easy mounting

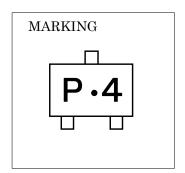
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
Vcbo	Collector to Base voltage	-50	V	
$V_{\rm EBO}$	Emitter to Base voltage	-10	V	
VIN	Input voltage	-40	V	
Vceo	Collector to Emitter voltage	-50	V	
$I_{\rm C}$	Collector current	-500	mA	
Pc	Collector dissipation(Ta=25°C)	200	mW	
T_{j}	Junction temperature	150	°C	
$\mathrm{T}_{\mathrm{stg}}$	Storage temperature	-55~+150	°C	



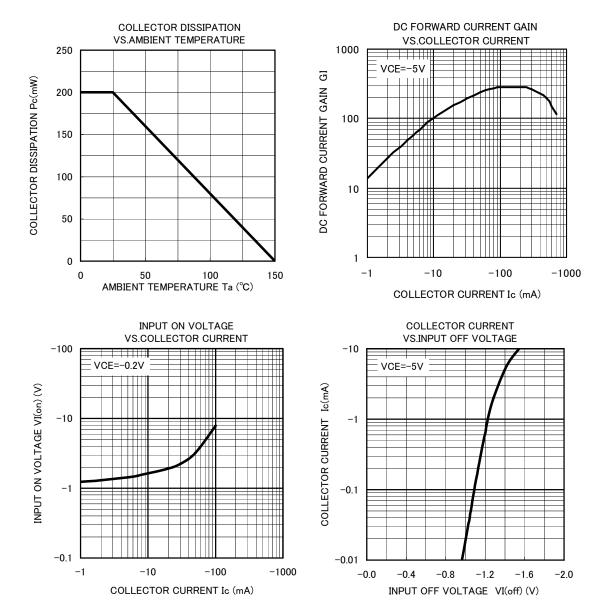
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			
			MIN	TYP	MAX	UNIT
V _{I(on)}	Input on voltage	V _{CE} =-0.3V, I _C =-10mA	_	_	-3	V
V I(off)	Input off voltage	V_{CE} =-5V, I _C =-100 μ A	-0.5	_	_	V
V _{CE} (sat)	C to E saturation voltage	Ic=-50mA, I _B =-2.5mA	—	-0.1	-0.3	V
I_{BE}	B to E current	V_{EB} =-5V	—	—	-0.88	mA
Ices	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	56	—	—	_
R_1	Input resistor	—	7	10	13	kΩ
R_2/R_1	Resistor ratio	—	0.8	1	1.2	_
\mathbf{f}_{T}	Gain band width product	V_{CE} =-10V, I _E =5mA, f=100MHz	_	150	_	MHz



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TYPICAL CHARACTERISTICS



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