RT5N136C

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

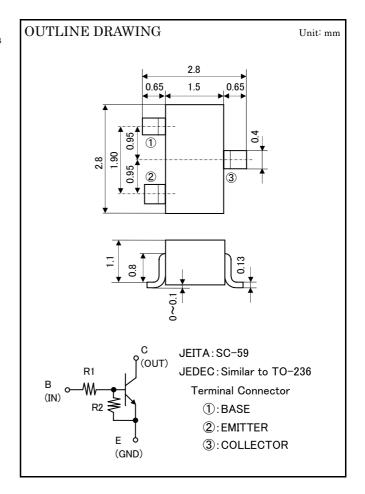
RT5N136C is a one chip transistor with built-in bias resistor, PNP type is RT5P136C.

FEATURE

Built-in bias resistor $(R_1=1k\,\Omega\,,\,R_2=10k\,\Omega\,)$ 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)

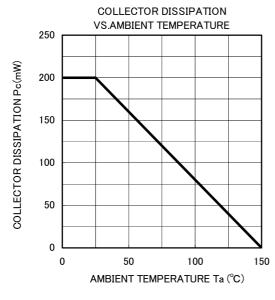
SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	ector to Base voltage 50		
V_{EBO}	Emitter to Base voltage	5	V	
$V_{\rm IN}$	Input voltage	10	V	
$V_{\rm CEO}$	Collector to Emitter voltage	50	V	
I_{C}	Collector current	500	mA	
Pc	Collector dissipation(Ta=25°C)	200	mW	
$T_{\rm j}$	Junction temperature	+150	လ	
$T_{ m stg}$	Storage temperature	-55~+150	င	

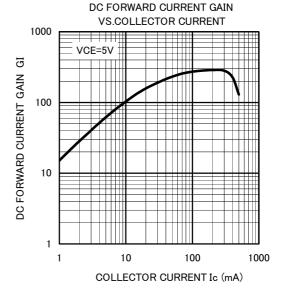


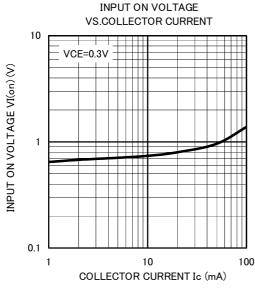
ELECTRICAL CHARACTERISTICS (Ta=25°C)

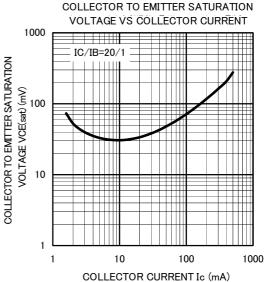
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			TINIIM
			MIN	TYP	MAX	UNIT
V _{I(on)}	Input on voltage	V _{CE} =0.3V, I _C =20mA	_	_	3.0	V
$V_{\rm I(off)}$	Input off voltage	V _{CE} =5V, I _C =100μA	0.3	_	_	V
$V_{\mathrm{CE}(\mathrm{sat})}$	C to E saturation voltage	I _C =50mA, I _B =2.5mA	_	0.1	0.3	V
I_{BE}	B to E current	$V_{BE}=5V$	_	_	7.2	mA
I_{CES}	Collector cut off current	$V_{CE}=50V$, $V_{BE}=0V$	_	_	0.5	μΑ
G _I	DC forward current gain	V_{CE} =5 V , I_{C} =50 mA	56	_	_	_
R_1	Input resistor	_	0.7	1.0	1.3	kΩ
R ₂ /R ₁	Resistor ratio	_	8	10	12	_
\mathbf{f}_{T}	Gain band width product	V_{CE} =10V, I_{E} =-5mA, f =100MHz	_	200	_	MHz

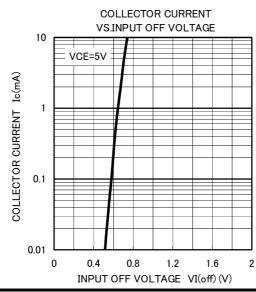
TYPICAL CHARACTERISTICS (Ta=25°C)













Keep safety first in your circuit designs!

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