RT5P14BC

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

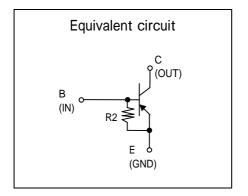
RT5P14BC is a one chip transistor with built-in bias resistor, NPN type is RT5N14BC.

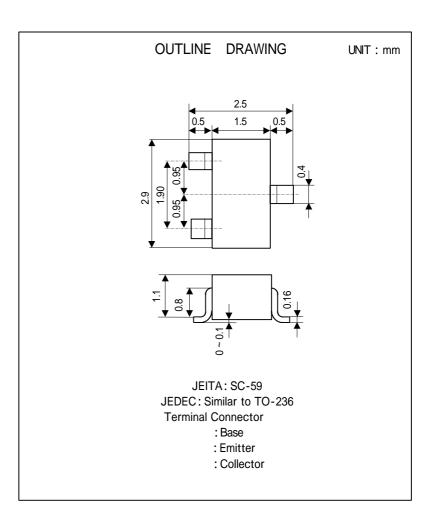
FEATURE

- Built-in bias resistor (R=10k).
- · High collector current (IC=0.5A).
- · Small package for mounting.

APPLICATION

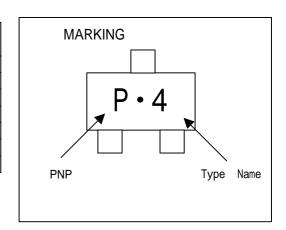
Inverted circuit, switching circuit, interface circuit, driver circuit.





MAXIMUM RATING (Ta=25)

SYMBOL	PARAMETER	RATING	UNIT
V_{CBO}	Collector to Base voltage -50		V
V_{EBO}	O Emitter to Base voltage -5		V
V_{CEO}	Collector to Emitter voltage	-50	V
Ι _c	Collector current	-500	mA
P_{C}	Collector dissipation(Ta=25)	200	mW
Tj	Junction temperature	+150	
Tstg	Storage temperature	-55 ~ +150	



Transistor

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ELECTRICAL CHARACTERISTICS (Ta=25)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	I _C =-1mA	-50			V
I_{CBO}	Collector cut off current	V _{CB} =-50V			-0.5	μΑ
I _{EBO}	Emitter cut off current	V _{EB} =-5V	-0.385		-0.714	mA
h _{FE}	DC forward current gain	V_{CE} =-5V , I $_{E}$ =-100mA	56			-
$V_{CE(sat)}$	C to E saturation voltage	$I_{C} = -50 \text{mA}$, $I_{B} = -2.5 \text{mA}$			-0.3	V
R_2	Emitter-base resistance		7	10	13	k
f_T	Gain band width product	$V_{CE} = -10V$, $I_{E} = 5mA$, $f = 100MHz$		150		MHz



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