RT1P14BC-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

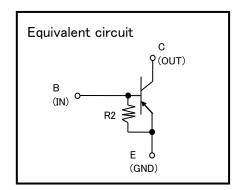
AEC-Q101 Compliance

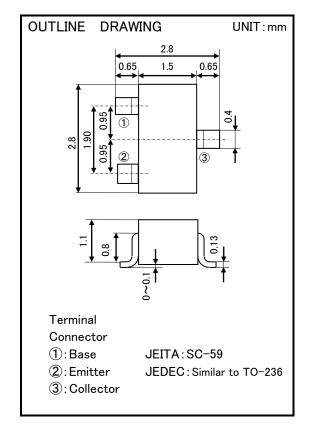
FEATURE

- •Built-in bias resistor (R2=10k Ω)
- Mini package for easy mounting

APPLICATION

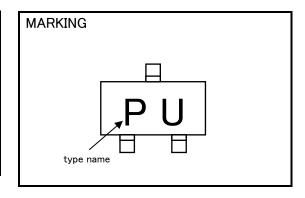
Inverted circuit, switching circuit, interface circuit, driver circuit.





MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	-50	V	
V_{EBO}	Emitter to Base voltage	-6	>	
V_{CEO}	Collector to Emitter voltage	-50	٧	
I_{C}	Collector current	-100	mA	
I_{CM}	Peak Collector current	-200	mA	
Pc	Collector dissipation	200	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	−55 ~ +150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25°C)

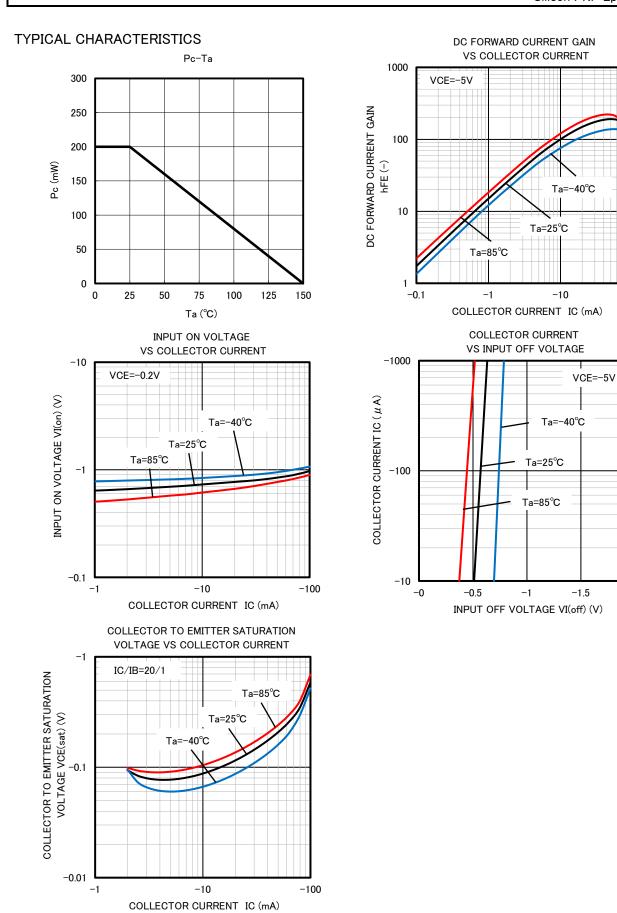
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E breakdown voltage	I _C =-100 μ A、R _{BE} =∞	-50	l	ı	V
\mathbf{I}_{CBO}	Collector cut off current	$V_{CB}=-50V$, $I_E=0$	_	l	-0.1	μΑ
\mathbf{I}_{EBO}	Emitter cut off current	V _{EB} =-5V, I _C =0	-375	-500	-725	μΑ
h_{FE}	DC forward current gain	V _{CE} =-5V, I _C =-5mA	30	l	I	-
$V_{\text{CE(sat)}}$	C to E saturation voltage	I_{C} =-10mA、 I_{B} =-0.5mA	_	l	-0.3	V
R2	Emitter-base resistor	_	7	10	13	kΩ
f_T	Gain band width product	$V_{CE}=-6V$, $I_{E}=10$ mA	_	150	_	MHz

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Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

-100

-2



Keep safety first in your circuit designs!

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