RT1P14BC-T150

OUTLINE DRAWING

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

AEC-Q101 Compliance

UNIT : mm

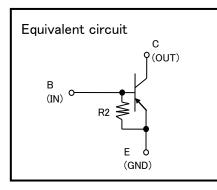
FEATURE

•Built-in bias resistor (R2=10k Ω)

•Mini package for easy mounting

APPLICATION

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

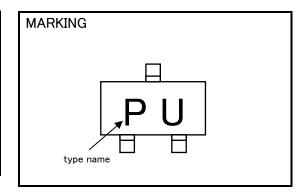


0.65 0.65 1.5 <u>0</u> 0.95 T 5 2.8 3 0.8 Terminal Connector (1): Base JEITA: SC-59 (2): Emitter JEDEC : Similar to TO-236 ③:Collector

2.8

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	
V _{CEO}	Collector to Emitter voltage	-50	V	
Ic	Collector current	-100	mA	
I _{CM}	Peak Collector current	-200	mA	
Pc	Collector dissipation	200	mW	
Tj	Junction temperature	+150	S	
T_{stg}	Storage temperature	-55~+150	°C	

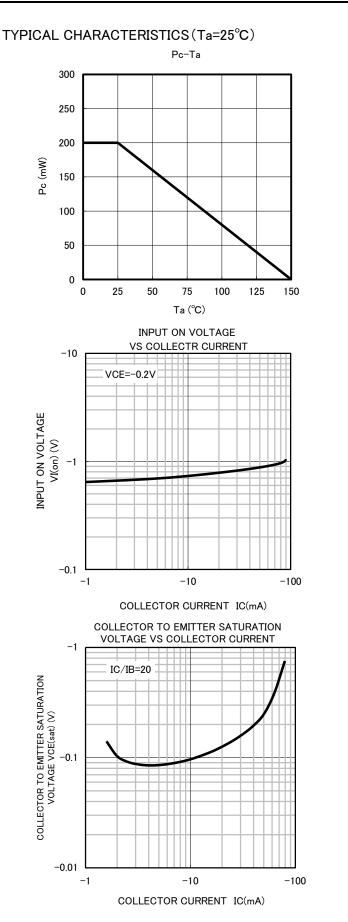


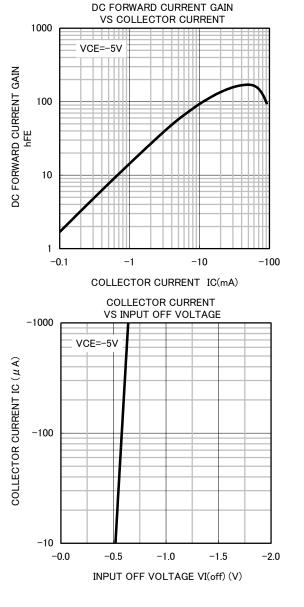
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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

RT1P14BC-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type





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