RT1P141C-T150

OUTLINE DRAWING

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

AEC-Q101 Compliance

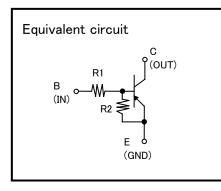
UNIT:mm

FEATURE

- •Built-in bias resistor (R1=10k Ω ,R2=10k Ω)
- •Mini package for easy mounting

APPLICATION

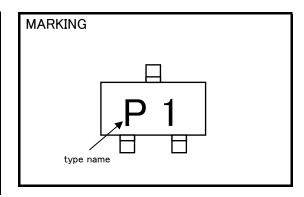
Inverted circuit, switching circuit, interface circuit, driver circuit.



2.8 0.65 1.5 0.65 0.95 6. 2.8 0.95 3 0.8 0~0.1 Terminal Connector (1):Base JEITA: SC-59 (2): Emitter JEDEC: Similar to TO-236 ③:Collector

MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	-50	V	
V _{EBO}	Emitter to Base voltage	-10	V	
V _{CEO}	Collector to Emitter voltage	-50	V	
V _{IN}	Input voltage	-40	V	
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	٦°	

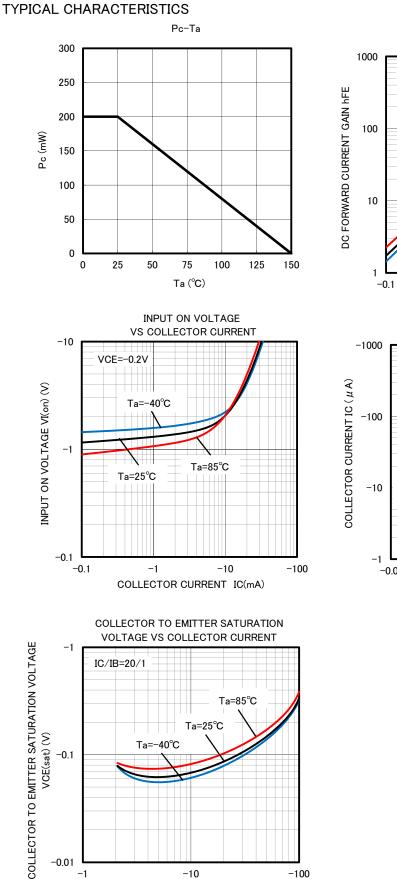


ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	C to E breakdown voltage	I_{c} =-100 μ A, 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	-192	-250	-357	μA
h _{FE}	DC forward current gain	V_{ce} =-5V, I_c =-10mA	50		—	—
$V_{CE(sat)}$	C to E saturation voltage	I _c =-10mA、I _B =-0.5mA	—	-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	V _{CE} =-0.2V, I _C =-5mA	_	-1.5	-3.0	V
V _{I(OFF)}	Input off voltage	V_{ce} =-5V, I_{c} =-100 μ A	-0.8	-1.1	—	V
R1	Input resistor	-	7	10	13	kΩ
R2/R1	Resistor ratio	-	0.9	1.0	1.1	_
f _T	Gain band width product	V _{ce} =-6V、I _e =10mA	_	150	_	MHz

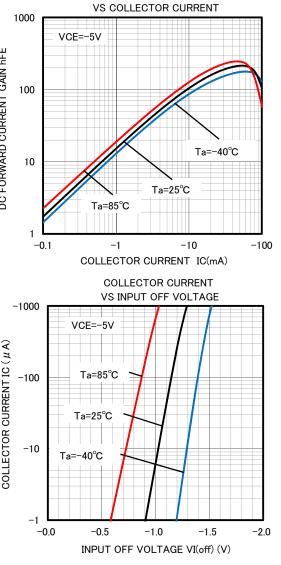
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Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type



COLLECTOR CURRENT IC(mA)

-1



DC FORWARD CURRENT GAIN

ISAHAYA ELECTRONICS CORPORATION

-100

ISAHAYA ELECTRONICS CORPORATION

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