RT1P436U-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

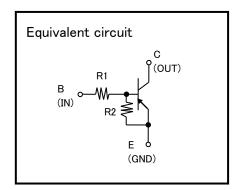
AEC-Q101 Compliance

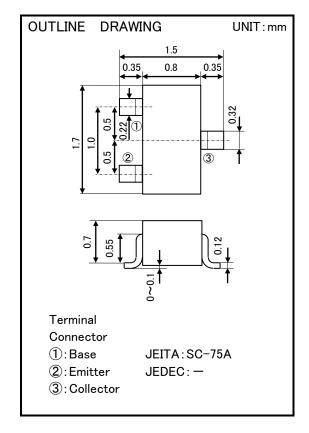
FEATURE

- Built-in bias resistor (R1=4.7k Ω ,R2=47k Ω)
- Mini package for easy mounting

APPLICATION

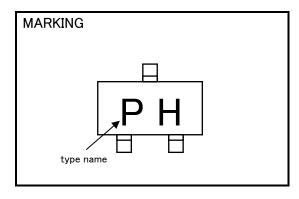
Inverted circuit, switching circuit, interface circuit, driver circuit.





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	
V_{CEO}	Collector to Emitter voltage	-50	V	
V_{IN}	Input voltage	-30	V	
I_{C}	Collector current	-100	mA	
I_{CM}	Peak Collector current	-200	mA	
Pc	Collector dissipation	150	mW	
T_{j}	Junction temperature	+150	°C	
T_{stg}	Storage temperature	−55 ~ +150	°C	

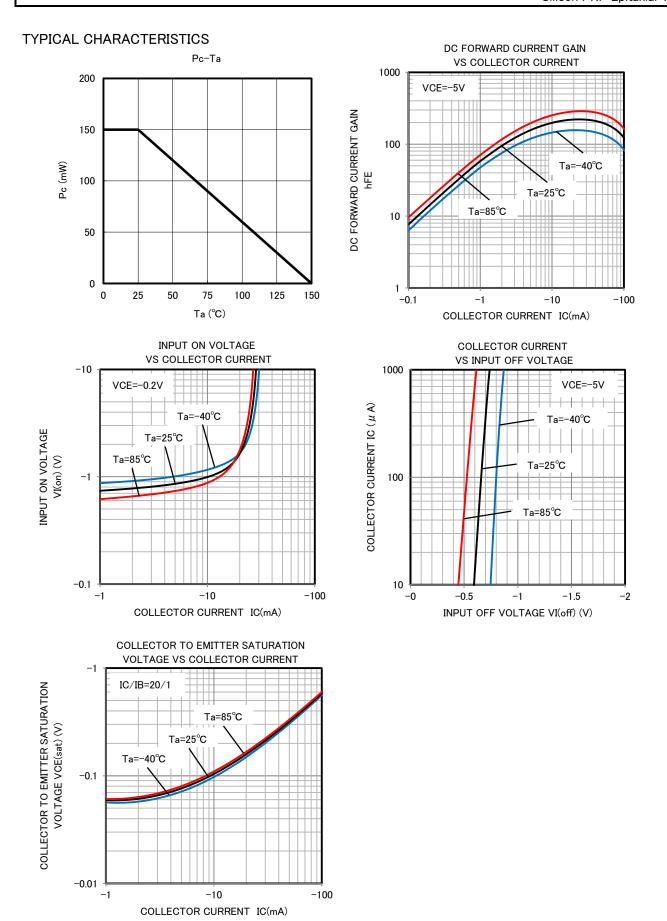


ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	_	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	-73	-97	-140	μΑ
h_{FE}	DC forward current gain	V _{CE} =-5V, I _C =-10mA	80	l	_	1
$V_{\text{CE(sat)}}$	C to E saturation voltage	I_{C} =-10mA、 I_{B} =-0.5mA	_	-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	$V_{CE} = -0.2V$, $I_{C} = -5mA$	_	-0.8	-1.4	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5 V , I_{C} =-100 μ A	-0.4	-0.6	_	V
R1	Input resistor	_	3.3	4.7	6.1	kΩ
R2/R1	Resistor ratio	_	8	10	12	_
f _T	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$	_	150	_	MHz

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