RT1N436U-T150

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

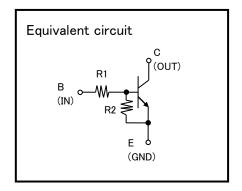
AEC-Q101 Compliance

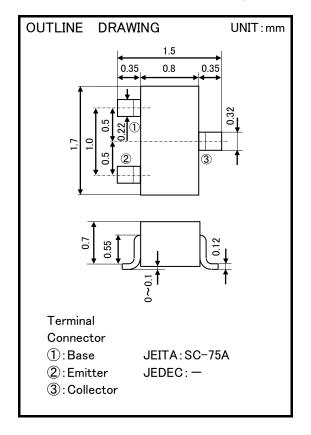
FEATURE

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

APPLICATION

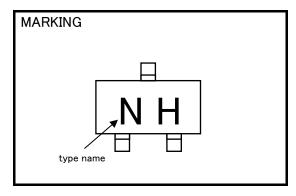
Inverted circuit, switching circuit, interface circuit, driver circuit.





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



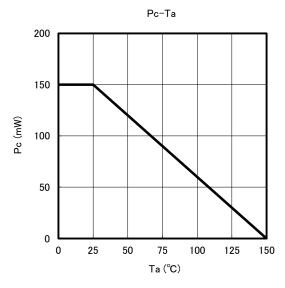
ELECTRICAL CHARACTERISTICS (Ta=25°C)

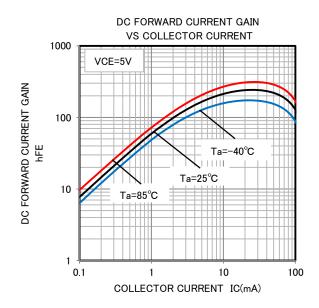
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			LINIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E breakdown voltage	$I_{C}=100 \mu$ A, $R_{BE}=\infty$	50	l	I	٧
\mathbf{I}_{CBO}	Collector cut off current	$V_{CB}=50V$, $I_{E}=0$	l	l	0.1	μΑ
\mathbf{I}_{EBO}	Emitter cut off current	$V_{EB}=5V$, $I_{C}=0$	73	97	140	μΑ
h _{FE}	DC forward current gain	$V_{CE}=5V$, $I_{C}=10mA$	80	l	I	1
$V_{\text{CE(sat)}}$	C to E saturation voltage	$I_{C}=10$ mA, $I_{B}=0.5$ mA	l	0.1	0.3	٧
$V_{I(ON)}$	Input on voltage	V_{CE} =0.2 $V_{s}I_{C}$ =5mA	l	0.8	1.4	٧
$V_{I(OFF)}$	Input off voltage	$V_{CE} = 5V$, $I_{C} = 100 \mu A$	0.4	0.6	I	٧
R1	Input resistor	_	3.3	4.7	6.1	kΩ
R2/R1	Resistor ratio	_	8	10	12	
f_T	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	_	200	-	MHz

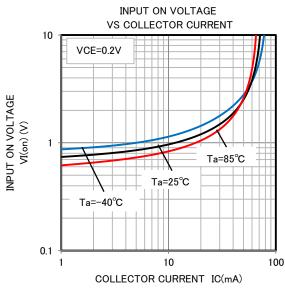
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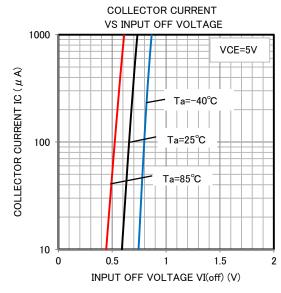
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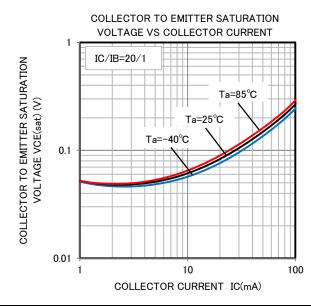
TYPICAL CHARACTERISTICS











Keep safety first in your circuit designs!

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