RT1P431M-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

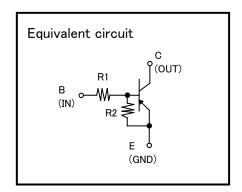
AEC-Q101 Compliance

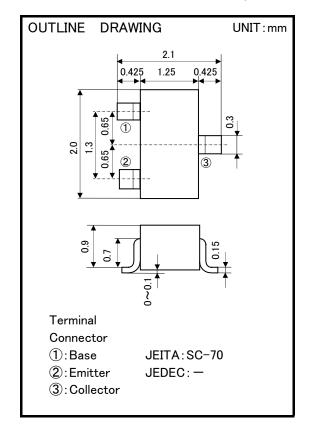
FEATURE

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

APPLICATION

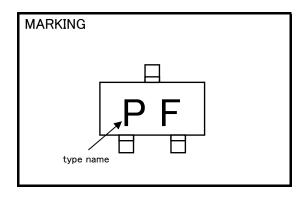
Inverted circuit, switching circuit, interface circuit, driver circuit.





MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	-50	V	
V_{EBO}	Emitter to Base voltage	-10	٧	
V_{CEO}	Collector to Emitter voltage	-50	٧	
V_{IN}	Input voltage	-30	٧	
I_{C}	Collector current	-100	mA	
I_{CM}	Peak Collector current	-200	mA	
P_{c}	Collector dissipation	200	mW	
T_{j}	Junction temperature	+150	°C	
T_{stg}	Storage temperature	−55 ~ +150	°C	

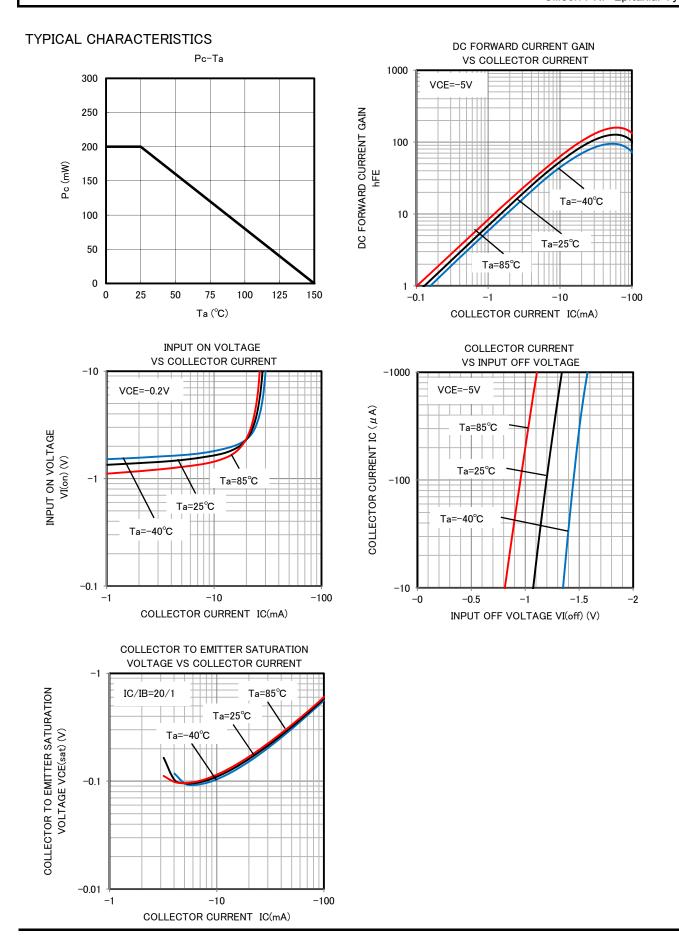


ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E breakdown voltage	$I_{C}=-100 \mu$ A, $R_{BE}=\infty$	-50	_	_	V
\mathbf{I}_{CBO}	Collector cut off current	$V_{CB}=-50V$, $I_{E}=0$	1	_	-0.1	μΑ
\mathbf{I}_{EBO}	Emitter cut off current	$V_{EB}=-5V$, $I_{C}=0$	-399	-532	-771	μΑ
h_{FE}	DC forward current gain	V_{CE} =-5V, I_{C} =-10mA	20	_	_	1
$V_{{\sf CE}({\sf sat})}$	C to E saturation voltage	I_{c} =-10mA, I_{b} =-0.5mA	1	-0.1	-0.3	٧
$V_{I(ON)}$	Input on voltage	$V_{CE} = -0.2V$, $I_{C} = -5mA$	1	-1.4	-2.3	٧
$V_{I(OFF)}$	Input off voltage	$V_{CE} = -5V$, $I_{C} = -100 \mu A$	-0.8	-1.1	_	٧
R1	Input resistor	_	3.3	4.7	6.1	kΩ
R2/R1	Resistor ratio	_	0.8	1.0	1.2	-
f _T	Gain band width product	V _{CE} =-6V、I _E =10mA	1	150	_	MHz

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Keep safety first in your circuit designs!

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