RT1P441M-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

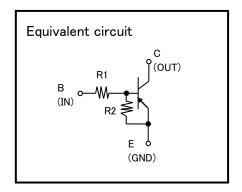
AEC-Q101 Compliance

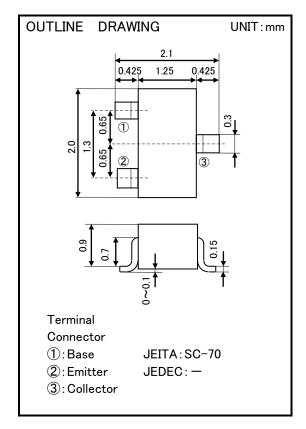
FEATURE

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

APPLICATION

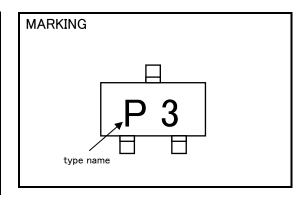
Inverted circuit, switching circuit, interface circuit, driver circuit.





MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage -50		V	
V_{EBO}	Emitter to Base voltage	-10	V	
V_{CEO}	Collector to Emitter voltage -50		V	
V_{IN}	Input voltage	-40	>	
\mathbf{I}_{C}	Collector current	-100	mA	
I_{CM}	Peak Collector current	-200	mA	
Pc	Collector dissipation	200	mW	
T_{j}	Junction temperature	+150	သိ	
T_{stg}	Storage temperature	−55 ~ +150	°C	



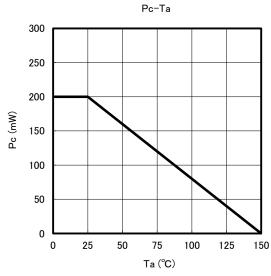
ELECTRICAL CHARACTERISTICS (Ta=25°C)

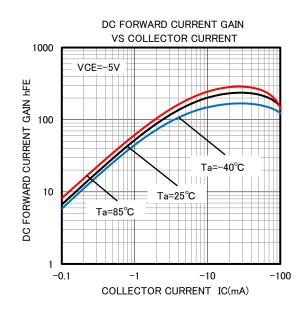
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	OINLI
$V_{(BR)CEO}$	C to E breakdown voltage	I _C =-100 μ A、R _{BE} =∞	-50	l	I	V
\mathbf{I}_{CBO}	Collector cut off current	$V_{CB} = -50V$, $I_{E} = 0$	I	l	-0.1	μΑ
I _{EBO}	Emitter cut off current	V _{EB} =-5V, I _C =0	-41	-53	-76	μΑ
h_{FE}	DC forward current gain	V_{CE} =-5 V , I_{C} =-5 mA	50	l	I	_
$V_{\text{CE(sat)}}$	C to E saturation voltage	I_{C} =-10mA、 I_{B} =-0.5mA	l	-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	$V_{CE} = -0.2V$, $I_{C} = -5mA$	l	-2.2	-5.0	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5 V , I_{C} =-100 μ A	-0.8	-1.1	-	٧
R1	Input resistor	_	33	47	61	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

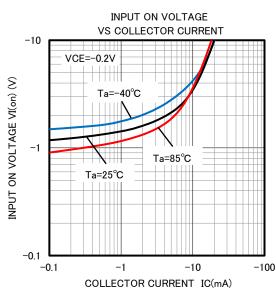
RT1P441M-T150

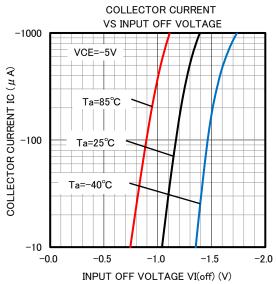
Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

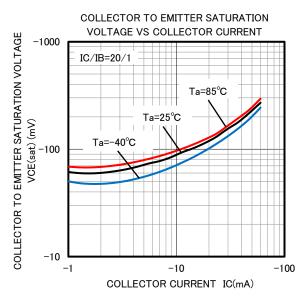
TYPICAL CHARACTERISTICS











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