RT1P237U-T150

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

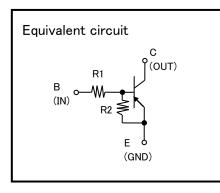
AEC-Q101 Compliance

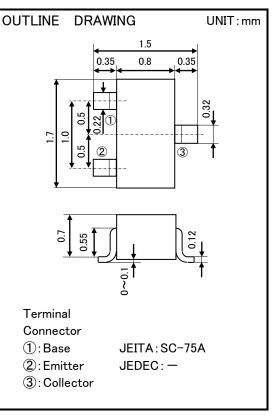
FEATURE

- •Built-in bias resistor (R1=2.2k Ω ,R2=47k Ω)
- Mini package for easy mounting

APPLICATION

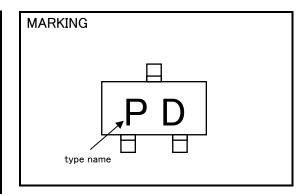
Inverted circuit, switching circuit, interface circuit, driver circuit.





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	-12	V	
Ic	Collector current	-100	mA	
I _{CM}	Peak Collector current	-200	mA	
Pc	Collector dissipation	150	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55~+150	°C	

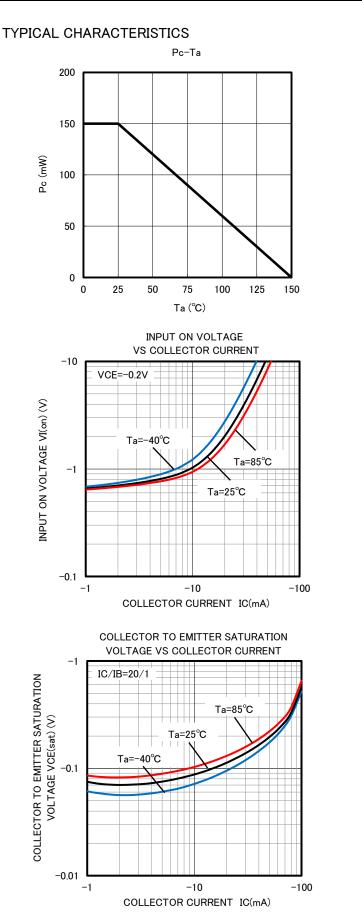


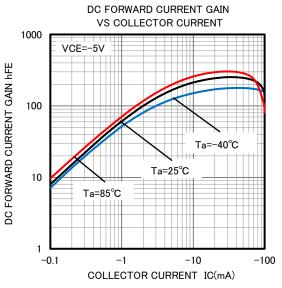
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	
$V_{(BR)CEO}$	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	-76	-102	-147	μA
h _{FE}	DC forward current gain	V_{CE} =-5V, I_{C} =-10mA	80	—	—	_
$V_{\text{CE}(\text{sat})}$	C to E saturation voltage	I_{C} =-10mA, I_{B} =-0.5mA	—	—	-0.3	V
$V_{I(ON)}$	Input on voltage	$V_{CE} = -0.2V$, $I_{C} = -5mA$	—	-0.7	-1.1	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V, I_{C} =-100 μ A	-0.5	-0.6	—	V
R1	Input resistor	-	1.5	2.2	2.9	kΩ
R2/R1	Resistor ratio	-	17	22	26	_
f⊤	Gain band width product	$V_{CE}=-6V$, $I_{E}=10mA$	_	150	_	MHz

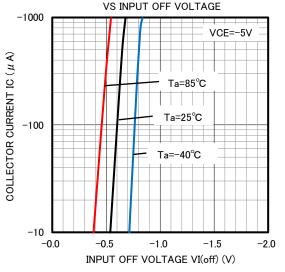
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COLLECTOR CURRENT



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