RT1N440M-T150

OUTLINE DRAWING

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

AEC-Q101 Compliance

UNIT:mm

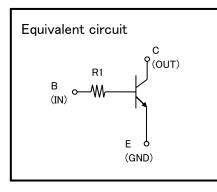
FEATURE

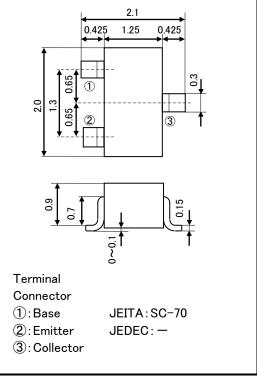
•Built-in bias resistor (R1=47k Ω)

•Mini package for easy mounting

APPLICATION

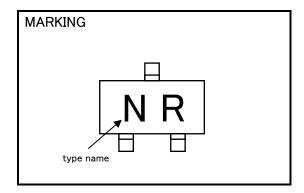
Inverted circuit, switching circuit, interface circuit, driver circuit.





MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT	
V _{CBO}	Collector to Base voltage	voltage 50		
V_{EBO}	Emitter to Base voltage	nitter to Base voltage 6		
V _{CEO}	Collector to Emitter voltage	ector to Emitter voltage 50		
Ic	Collector current	100	mA	
I _{CM}	Peak Collector current	200	mA	
Pc	Collector dissipation	200	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55~+150	C°	

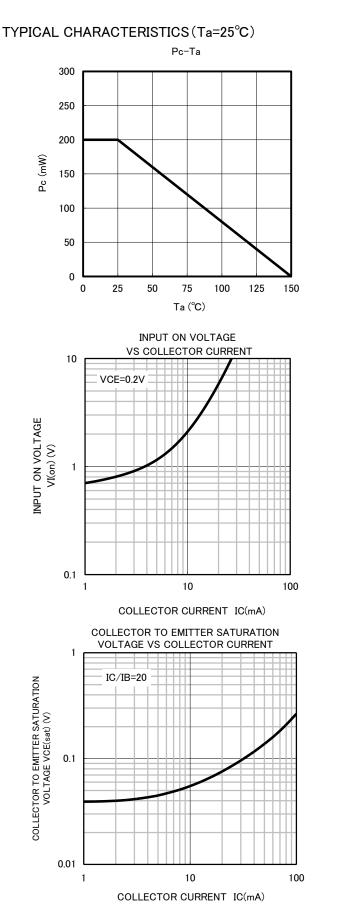


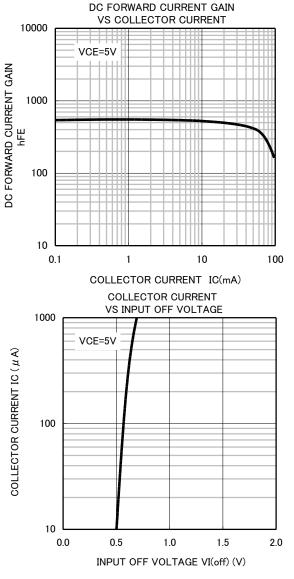
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E breakdown voltage	$I_{\rm C}$ =100 μ A, R _{BE} = ∞	50		1	V
I _{CBO}	Collector cut off current	$V_{CB}=50V$, $I_{E}=0$	1		0.1	μA
I _{EBO}	Emitter cut off current	$V_{EB}=5V$, $I_{C}=0$	1		0.1	μA
h _{FE}	DC forward current gain	V _{CE} =5V、I _C =1mA	100		1	-
$V_{\text{CE}(\text{sat})}$	C to E saturation voltage	$I_{C}=10mA$, $I_{B}=0.5mA$	1		0.3	V
R1	Input resistor	-	33	47	61	kΩ
f _T	Gain band width product	$V_{CE}=6V$, $I_{E}=-10mA$	1	200	1	MHz

RT1N440M-T150

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type





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