RT2N21M

COMPOSITE TRANSISTOR WITH RESISTOR FOR SWITCHING APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

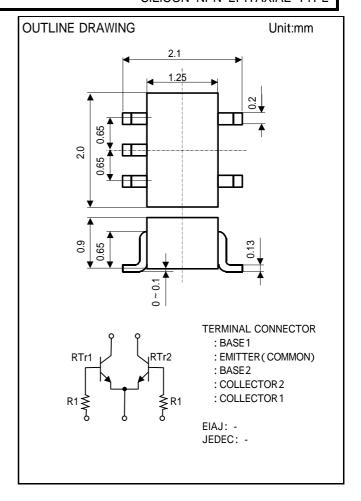
RT2N21M is a composite transistor with built-in bias resistor

FEATURE

Built-in bias resistor (R1=10 K)
Mini package for easy mounting

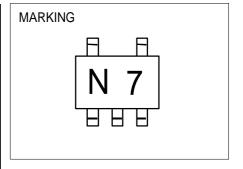
APPLICATION

Inverted circuit , switching circuit , interface circuit , driver circuit



MAXIMUM RATINGS (Ta=25)(RTr1, RTr2)

Symbol	Parameter	Ratings	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
I _C	Collector current	100	mA
I _{CM}	Peak Collector current	200	mA
Pc	Collector dissipation(Total Ta=25)	150	mW
T _j	Junction temperature	+ 150	
T _{stg}	Storage temperature	-55 ~ + 150	



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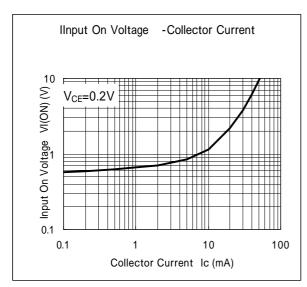
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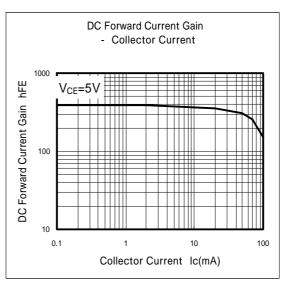
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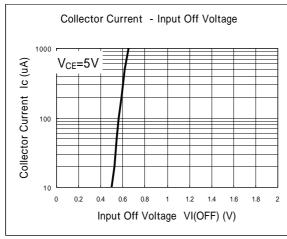
ELECTRICAL CHARACTERISTICS (Ta=25)(RTr1, RTr2)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Onit
V _{(BR)CBO}	C to E break down voltage	I _C =100 μ A , R _{BE} =	50	-	ı	V
I _{CBO}	Collector cut off current	V_{CB} =50V , I_E =0	-	-	0.1	μA
h _{FE}	DC forward current gain	V _{CE} =5V , I C=1mA	100	-	-	-
V _{CE(sat)}	C to E saturation voltage	I _C =10mA , I _B =0.5mA	-	0.1	0.3	V
R ₁	Input resistor		7	10	13	K
f _T	Gain band width product	V _{CE} =6V , I _E =-10mA		200		MHz

TYPICAL CHARACTERISTICS (Tr1, Tr2)









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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