RT2N04M

COMPOSITE TRANSISTOR WITH RESISTOR FOR SWITCHING APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

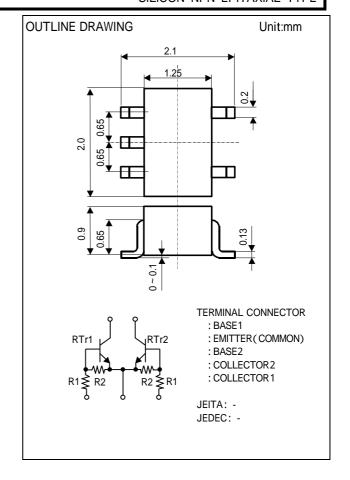
RT2N04M is a composite transistor with built-in bias resistor

FEATURE

Built-in bias resistor (R1=22 K , R2=22K)
Mini package for easy mounting

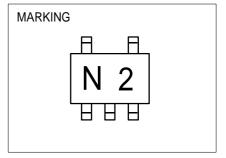
APPLICATION

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	٧
V _{EBO}	Emitter to Base voltage	10	٧
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
Tj	Junction temperature	+ 150	
T _{stg}	Storage temperature	-55 ~ + 150	



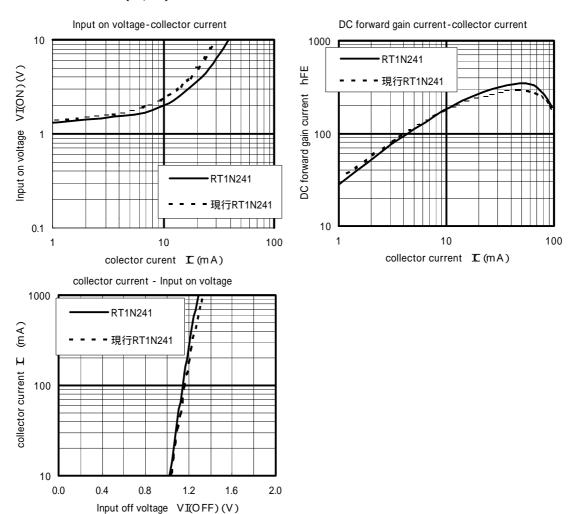
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ELECTRICAL CHARACTERISTICS (Ta=25)(RTr1, RTr2)

Symbol	Parameter	Test conditions	Limits			11-14
			Min	Тур	Max	Unit
V _{(BR)CEO}	Collector to Emitter break down voltage	I _C =100 μ A , R _{BE} =	50	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =50V , I _E =0mA	-	-	0.1	μА
h _{FE}	DC forward current gain	V _{CE} =5V , I _C =5mA	50	-	-	-
V _{CE(sat)}	Collector to Emitter saturation voltage	I _C =10mA , I _B =0.5mA	-	0.1	0.3	V
V _{I(ON)}	Input on voltage	V_{CE} =0.2V , I $_{C}$ =5mA	-	1.8	3.0	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V , I $_{C}$ =100 μ A	0.8	1.1	-	V
R ₁	Input resistor		16	22	28	K
R ₂ /R ₁	Resistor ratio		0.9	1.0	1.1	-
f _T	Gain band width product	V _{CE} =6V , I _E =-10mA	-	200	-	MHz

TYPICIAL CHARACTERISTICS (Tr1, Tr2)



ISAHAYA ELECTRONICS CORPORATION



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