RT2P03M

COMPOSITE TRANSISTOR WITH RESISTOR FOR SWITCHING APPLICATION SILICON PNP EPITAXIAL TYPE

DESCRIPTION

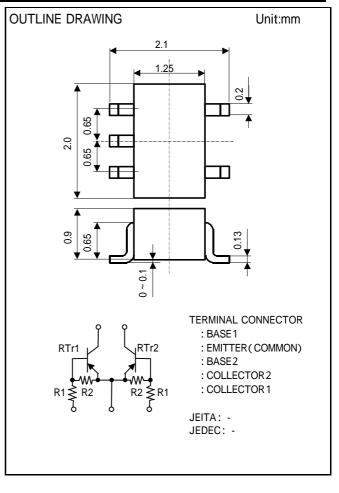
RT2P03M is a composite transistor with built-in bias resistor

FEATURE

Built-in bias resistor (R1=10 K , R2=10K) 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	-10	V
V _{CEO}	Collector to Emitter voltage	-50	V
Ι _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	

MARKING			
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L	ΗE		

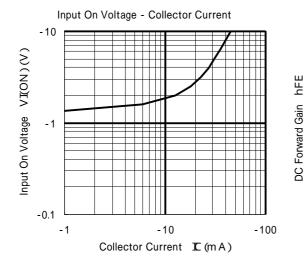
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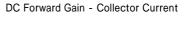
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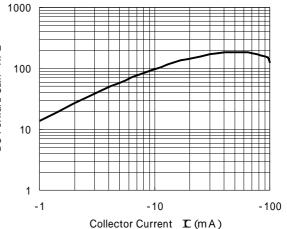
ELECTRICAL CHARACTERISTICS (Ta=25)(RTr1, RTr2)

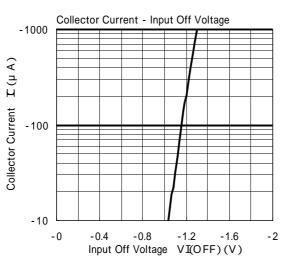
Symbol	Parameter			Limits		
		Test conditions	Min	Тур	Max	Unit
V _{(BR)CBO}	C to E break down voltage	I _c =-100 μ A , R _{BE} =	-50	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =-50V , I _E =0	-	-	-0.1	μA
h _{FE}	DC forward current gain	V _{CE} =-5V , I C=-5mA	50	-	-	-
V _{CE(sat)}	C to E saturation 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	-	-1.5	-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		7	10	13	К
R_2/R_1	Resistor ratio		0.9	1.0	1.1	-
f⊤	Gain band width product	V _{CE} =-6V , I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS (Tr1, Tr2)











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