

RT2P21M

COMPOSITE TRANSISTOR WITH RESISTOR
FOR SWITCHING APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

RT2P21M is a composite transistor with built-in bias resistor

FEATURE

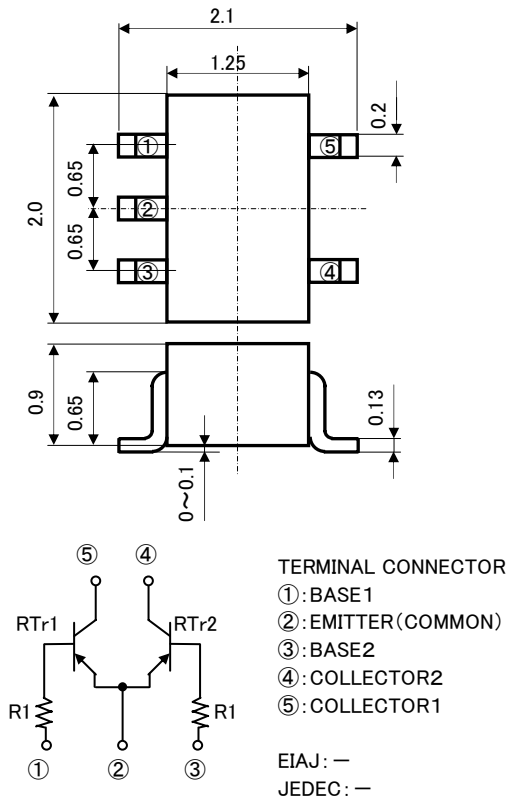
- Built-in bias resistor (R1=10 K Ω)
- Mini package for easy mounting

APPLICATION

Inverted circuit , switching circuit , interface circuit , driver circuit

OUTLINE DRAWING

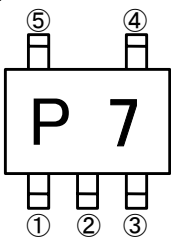
Unit:mm



MAXIMUM RATINGS (Ta=25°C) (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
P _C	Collector dissipation (Total Ta=25°C)	150	mW
T _j	Junction temperature	+ 150	°C
T _{stg}	Storage temperature	-55 ~ + 150	°C

MARKING



RT2P21M

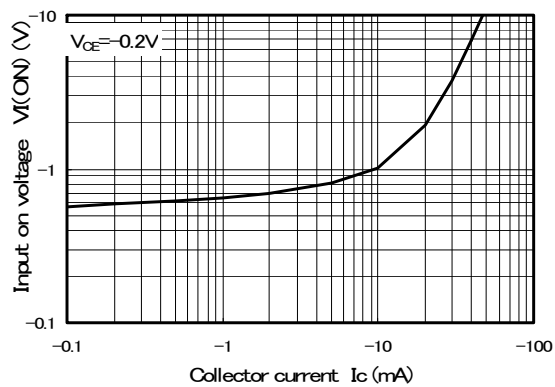
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ELECTRICAL CHARACTERISTICS (Ta=25°C) (RT1, RT2)

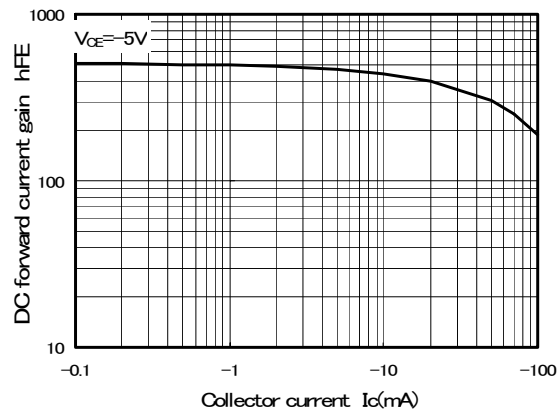
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to E break down voltage	$I_C = -100 \mu A$, $R_{BE} = \infty$	-50	-	-	V
I_{CBO}	Collector cut off current	$V_{CB} = -50V$, $I_E = 0$	-	-	-0.1	μA
h_{FE}	DC forward current gain	$V_{CE} = -5V$, $I_C = -1mA$	100	-	-	-
$V_{OE(sat)}$	C to E saturation voltage	$I_C = -10mA$, $I_B = -0.5mA$	-	-0.1	-0.3	V
R_I	Input resistor		7	10	13	K Ω
f_T	Gain band width product	$V_{CE} = -6V$, $I_E = 10mA$		150		MHz

TYPICAL CHARACTERISTICS (Tr1, Tr2)

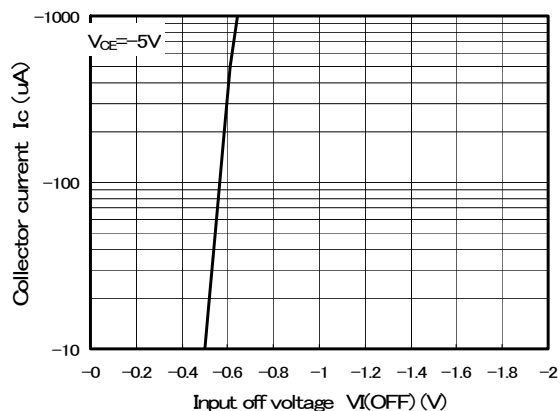
Input on voltage - Collector current



DC forward current gain - Collector current



Collector current - Input off voltage





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