

RT2P20M

COMPOSITE TRANSISTOR WITH RESISTOR
FOR SWITCHING APPLICATION
SILICON PNP EPITAXIAL TYPE

DESCRIPTION

RT2P20M is a composite transistor with built-in bias resistor

FEATURE

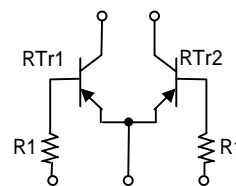
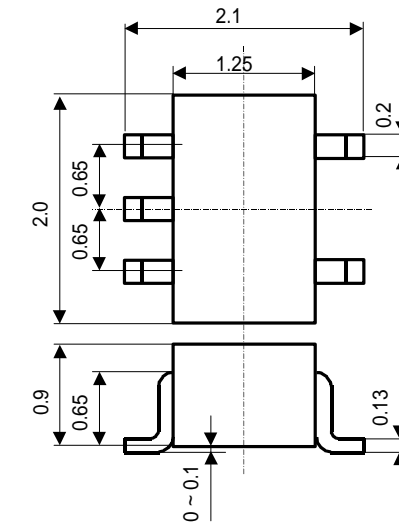
- Built-in bias resistor ($R1=4.7\text{ K}$)
- Mini package for easy mounting

APPLICATION

Inverted circuit , switching circuit , interface circuit , driver circuit

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

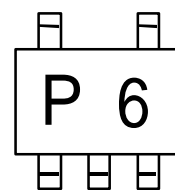
- : BASE 1
- : EMITTER (COMMON)
- : BASE 2
- : COLLECTOR 2
- : COLLECTOR 1

JEITA: -
JEDEC: -

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	
T_{stg}	Storage temperature	-55 ~ + 150	

MARKING



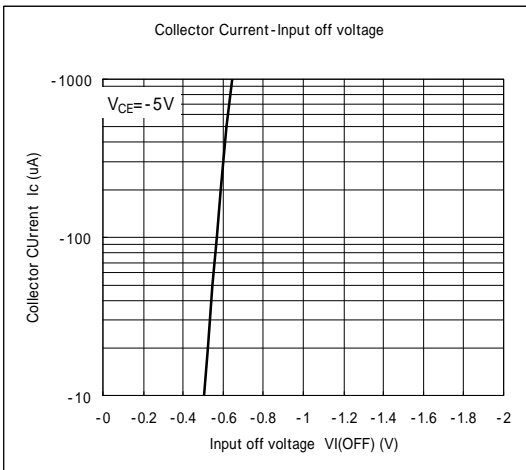
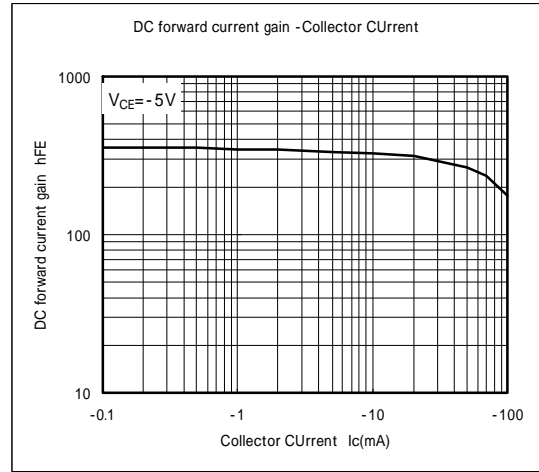
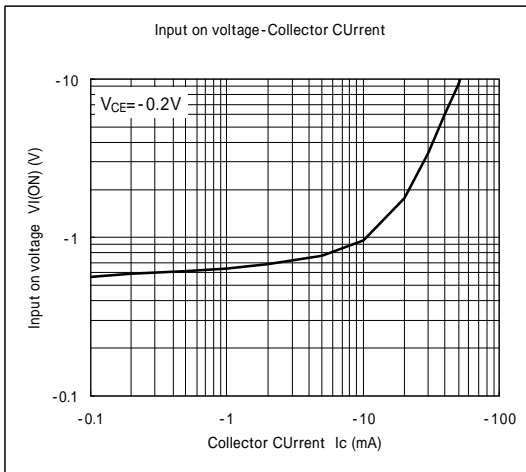
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ELECTRICAL CHARACTERISTICS (Ta=25 °C)(RT1, RT2)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CBO}$	C to E break down voltage	$I_C = -100 \mu A, R_{BE} =$	-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	-	-	-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -10mA, I_B = -0.5mA$	-	-0.1	-0.3	V
R_1	Input resistor		3.3	4.7	6.1	K
f_T	Gain band width product	$V_{CE} = -6V, I_E = 10mA$		150		MHz

TYPICAL CHARACTERISTICS (Tr1, Tr2)





Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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