

RT3PRRM

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3PRRM is a composite transistor built with two RT1P440 chip in SC-88 package.

FEATURE

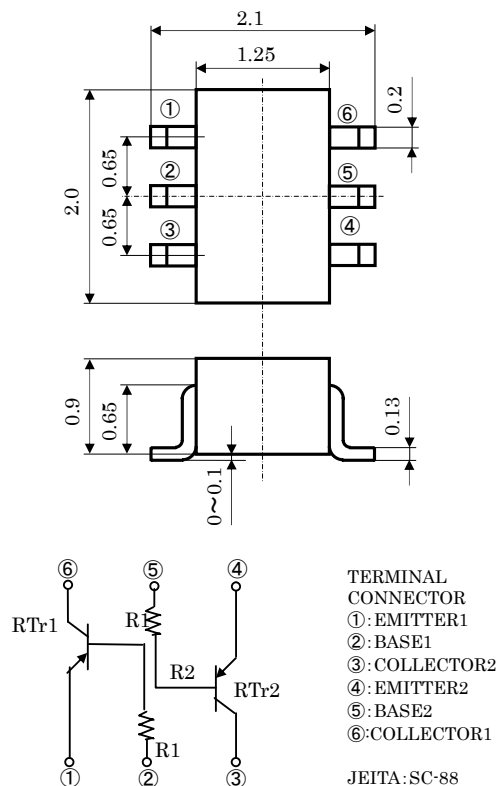
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

Inverted circuit, switching circuit,
interface circuit, driver circuit

OUTLINE DRAWING

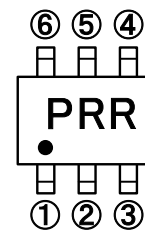
Unit: mm



MAXIMUM RATING (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

SYMBOL	PARAMETER	RATING	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



RT3PRRM

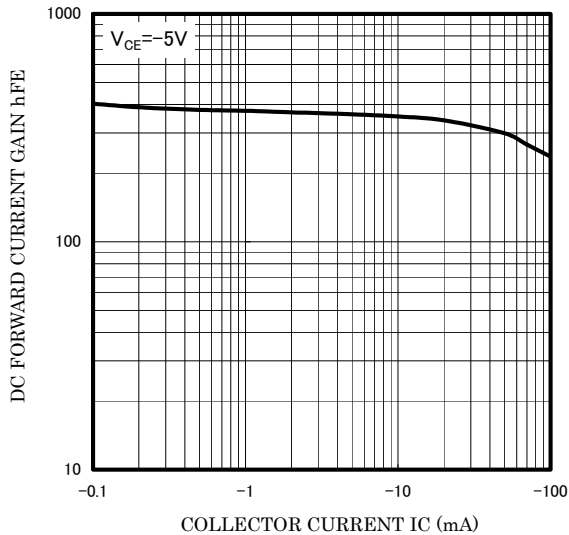
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ELECTRICAL CHARACTERISTICS (Ta=25°C) (The characteristics apply to both Tr1 and Tr2.)

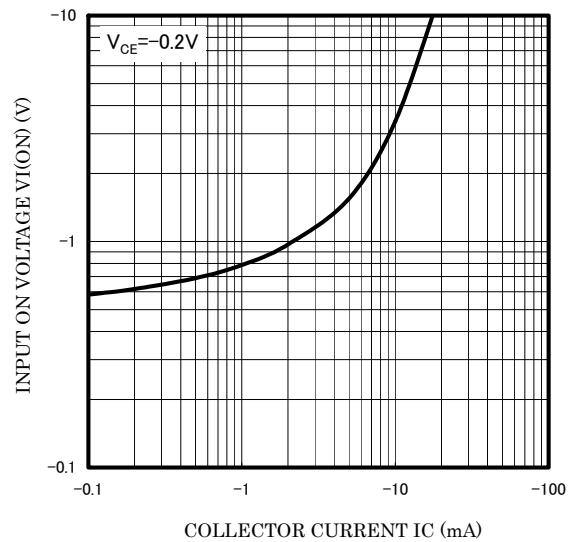
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
V _{(BR)CEO}	Collector to Emitter break down voltage	I _C =-100 μA, R _{BE} =∞	-50	-	-	V
I _{CBO}	Collector cut off current	V _{CB} =-50V, I _E =0	-	-	-0.1	μA
h _{FE}	DC forward current gain	V _{CE} =-5V, I _C =-1mA	100	-	-	-
V _{CE(sat)}	Collector to Emitter saturation voltage	I _C =-10mA, I _B =-0.5mA	-	-	-0.3	V
R ₁	Input resistor	-	33	47	61	kΩ
f _T	Gain band width product	V _{CE} =-6V, I _E =10mA	-	150	-	MHZ

TYPICAL CHARACTERISTICS (R_{Tr1}, R_{Tr2})

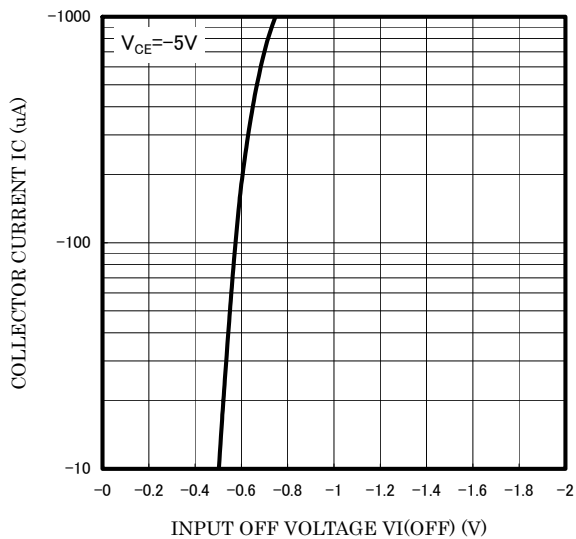
DC FORWARD CURRENT GAIN
VS. COLLECTOR CURRENT



INPUT ON VOLTAGE
VS. COLLECTOR CURRENT



COLLECTOR CURRENT
VS. INPUT OFF VOLTAGE





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