

RT3P11M

Composite Transistor With Resistor
For Switching Application
Silicon Epitaxial Type

DESCRIPTION

RT3P11M is a composite transistor built with two RT1P141 in SC-88 package.

FEATURE

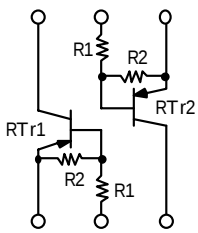
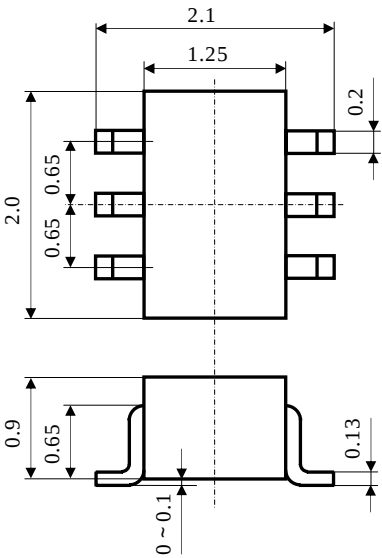
- Silicon epitaxial type
- Each transistor elements are independent.
- Mini package for easy mounting

APPLICATION

- Inverted circuit, switching circuit,
- interface circuit, driver circuit

OUTLINE DRAWING

Unit : mm



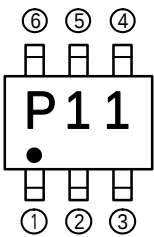
TERMINAL
CONNECTOR
: EMITTER1
: BASE1
: COLLECTOR2
: EMITTER2
: BASE2
: COLLECTOR1

JEITA: SC-88

MAXIMUM RATING (Ta=25 °C)

SYMBOL	PARAMETER	RATING	UNIT
VCBO	Collector to Base voltage	-50	V
VEBO	Emitter to Base voltage	-10	V
VCEO	Collector to Emitter voltage	-50	V
VIN	Input Voltage	-40	V
IC	Collector current	-100	mA
ICM	Peak Collector current	-200	mA
PC	Collector dissipation (Total, Ta=25 °C)	150	mW
Tj	Junction temperature	+ 150	
Tstg	Storage temperature	-55 ~ + 150	

MARKING



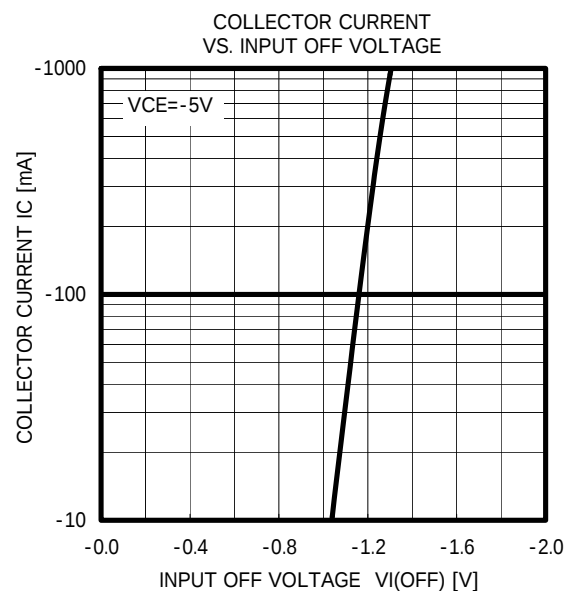
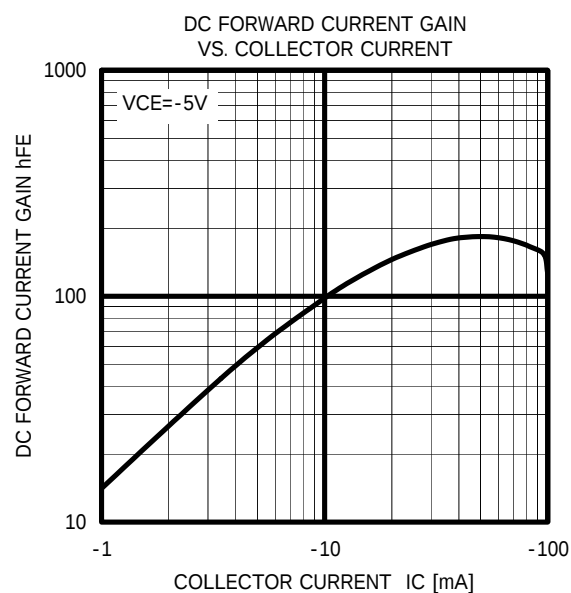
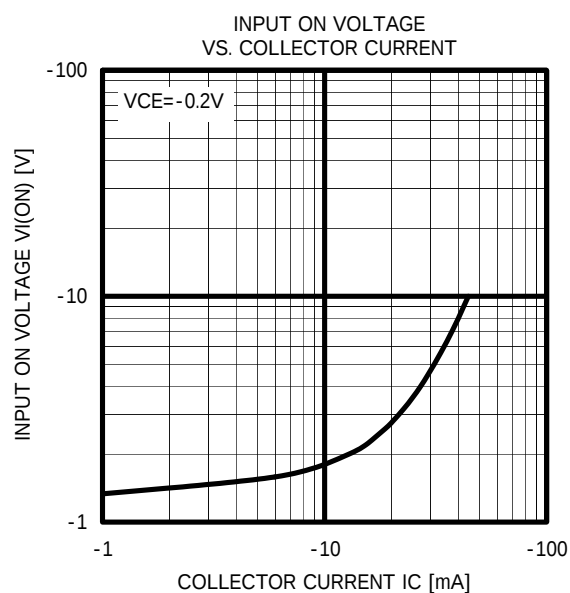
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ELECTRICAL CHARACTERISTICS (Ta=25 °C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Typ	Max	
$V_{(BR)CEO}$	Collector to Emitter 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	$V_{CE} = -5V, I_C = -10mA$	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	$V_{CE} = -0.2V, I_C = -5mA$	-	-1.5	-3.0	V
$V_{I(OFF)}$	Input off voltage	$V_{CE} = -5V, I_C = -100 \mu A$	-0.8	-1.1	-	V
R_1	Input resistor	-	7	10	13	$k\Omega$
R_2/R_1	Resistor ratio	-	0.9	1.0	1.1	-
f_T	Gain band width product	$V_{CE} = -6V, I_E = 10mA$	-	150	-	MHz

TYPICAL CHARACTERISTICS





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