# 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**

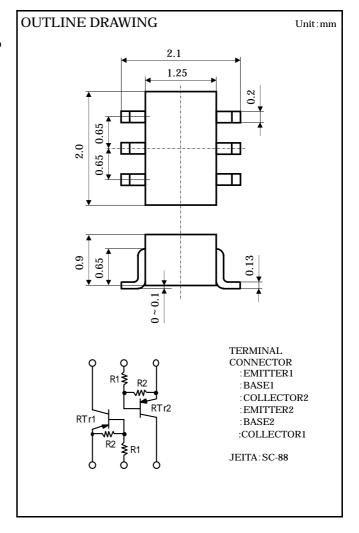
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

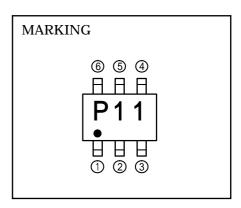
### **APPLICATION**

Inverted circuit, switching circuit, interface circuit, driver circuit



# MAXIMUM RATING (Ta=25)

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 )	150	mW
Tj	Junction temperature	+ 150	
T <sub>stg</sub>	Storage temperature	-55 ~ + 150	



-100

## ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			T I 14
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I <sub>C</sub> =-100 µ A,R <sub>BE</sub> =	-50	-	-	V
ICBO	Collector cut off current	V <sub>CB</sub> =-50V,I <sub>E</sub> =0	-	-	-0.1	μΑ
hfE	DC forward current gain	VCE=-5V,IC=-10mA	50	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	IC=-10mA,IB=-0.5mA	-	-0.1	-0.3	V
V <sub>I(ON)</sub>	Input on voltage	V <sub>CE</sub> =-0.2V,I <sub>C</sub> =-5mA	-	-1.5	-3.0	V
VI(OFF)	Input off voltage	VCE=-5V,IC=-100 µ A	-0.8	-1.1	-	V
R <sub>1</sub>	Input resistor	-	7	10	13	k
R <sub>2</sub> /R <sub>1</sub>	Resistor ratio	-	0.9	1.0	1.1	-
fT	Gain band width product	VCE=-6V,IE=10mA	-	150	-	MHz

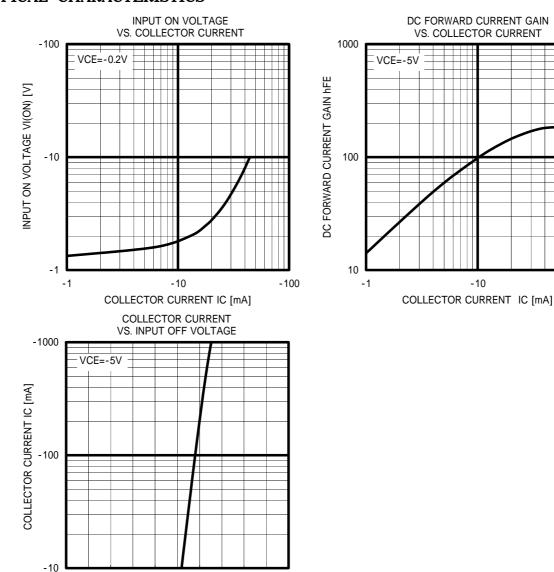
## TYPICAL CHARACTERISTICS

-0.0

-0.4

-0.8

INPUT OFF VOLTAGE VI(OFF) [V]



-2.0

-1.6



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