RT3T11M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3T11M is a composite transistor built with RT1N141 chip and RT1P141 chip in SC-88 package.

FEATURE

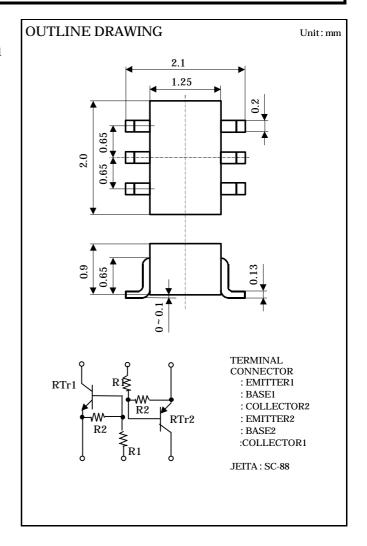
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

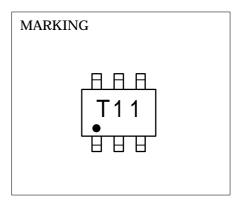
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25)

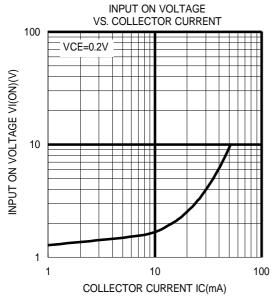
SYMBOL	PARAMETER	RATING	UNIT	
V_{CBO}	Collector to Base voltage	50	V	
V_{EBO}	Emitter to Base voltage	10	V	
V_{CEO}	Collector to Emitter voltage	50	V	
I_C	Collector current	100	mA	
I_{CM}	Peak Collector current	200	mA	
P_{C}	Collector dissipation(Total, Ta=25)	150	mW	
$T_{\mathbf{j}}$	Junction temperature	+ 150		
T_{stg}	Storage temperature	-55 ~ + 150		

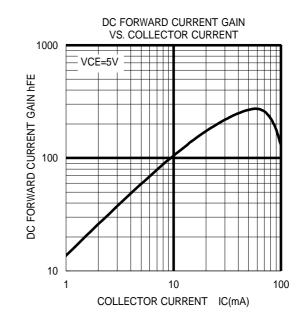


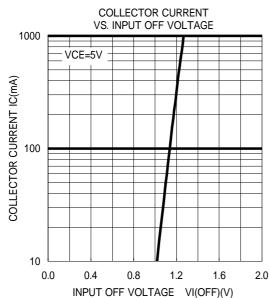
ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			T I 14
			Min	Тур	Max	Unit
V _{(BR)CEO}	Collector to Emitter break down voltage	I_{C} =100 μ 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} =5 V , I_{C} =10 m A	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	$V_{\rm CE}$ =0.2V, $I_{\rm C}$ =5mA	-	1.5	3.0	V
$V_{I(OFF)}$	Input off voltage	$V_{\rm CE}$ =5V, $I_{\rm C}$ =100 μ A	0.8	1.1	-	V
R ₁	Input resistor	-	7	10	13	k
R ₂ /R ₁	Resistor ratio	-	0.9	1.0	1.1	-
f_{T}	Gain band width product	V_{CE} =6 V , I_{E} =-10 m A	-	150	-	MH_Z

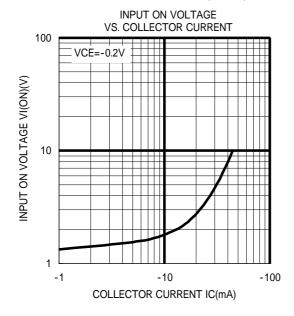
TYPICAL CHARACTERISTICS (Tr1)

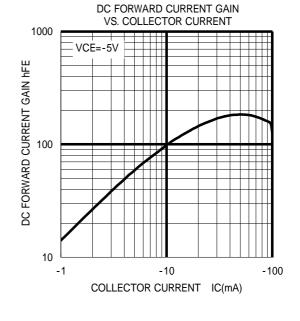


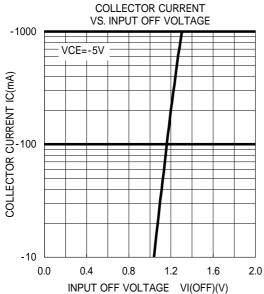




TYPICAL CHARACTERISTICS (Tr2)









Marketing division, Marketing planning department 6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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