RT3T22M

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3T22M is a composite transistor built with RT1N241 chip and RT1P241 chip in SC-88 package.

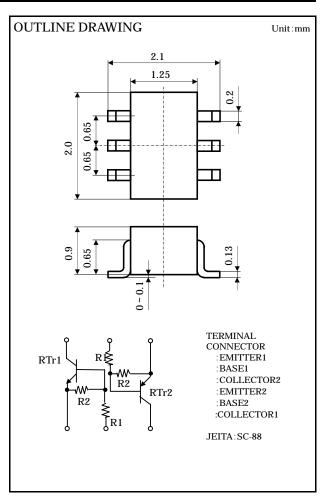
FEATURE

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

APPLICATION

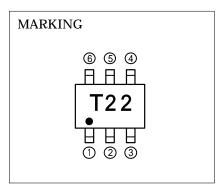
Inverted circuit, switching circuit, interface circuit, driver circuit

PNP built in transistor of " - "sign is abbreviation.



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
IC	Collector current	100	mA
Ісм	Peak Collector current	200	mA
Pc	$Collector\ dissipation\ (\ Total,\ Ta=25)$	150	mW
Tj	Junction temperature	+ 150	
Tstg	Storage temperature	-55 ~ +150	



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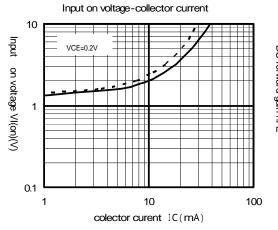
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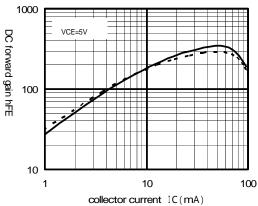
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ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			T Insta
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	$I_{C}=100 \ \mu A, R_{BE}=$	50	-	-	V
Ісво	Collector cut off current	$V_{CB}=50V,I_{E}=0$	-	-	0.1	μA
hFE	DC forward current gain	V _{CE} =5V,I _C =5mA	50	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	Ic=10mA,IB=0.5mA	-	0.1	0.3	V
VI(ON)	Input on voltage	VCE=0.2V,IC=5mA	-	1.8	3.0	V
VI(OFF)	Input off voltage	Vce=5V,Ic=100 µ A	0.8	1.1	-	V
R1	Input resistor	-	16	22	28	k
R ₂ /R ₁	Resistor ratio	-	0.9	1.0	1.1	-
fT	Gain band width product	VCE=6V,IE=-10mA	-	200	-	MHz

TYPICAL CHARACTERISTICS (Tr1)

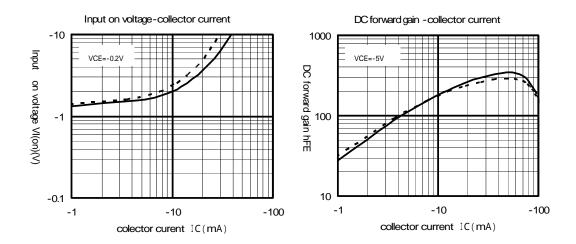


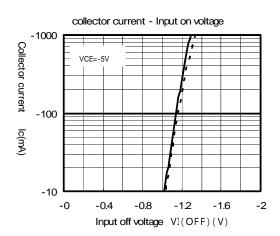


DC forward gain -collector current

Collector current - Input on voltage

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