RT3NDDM

Composite Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type

DESCRIPTION

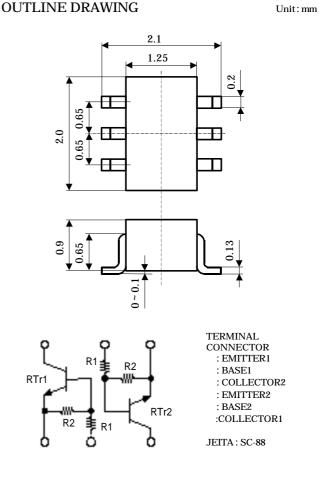
RT3NDDM is a composite transistor built with two RT1N237 chips in SC-88 package.

FEATURE

Silicon NPN epitaxial type Built in bias resistor (R1=2.2k , R2=47k) Each transistor elements are independent. Mini package for easy mounting

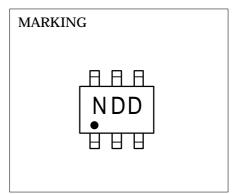
APPLICATION

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	
Тį	Junction temperature	+ 150		
T _{stg}	Storage temperature	-55 ~ +150		



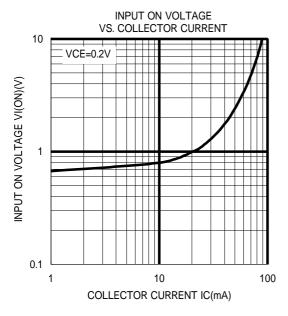
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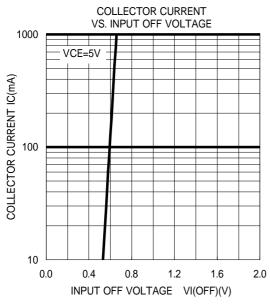
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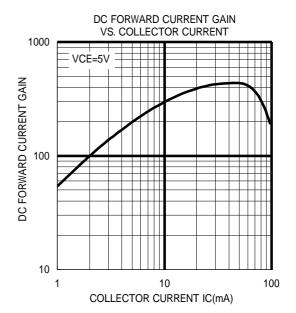
ELECTRICAL CHARACTERISTICS (Ta=25)

Symbol	Parameter	Test conditions	Limits			T
			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} =5V,I _C =10mA	80	-	-	-
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	$V_{CE}=0.2V, I_{C}=5mA$	-	0.7	1.1	V
V _{I(OFF)}	Input off voltage	V_{CE} =5V,I _C =100 µ A	0.5	0.6	-	V
R ₁	Input resistor	-	1.5	2.2	2.9	k
R_2/R_1	Resistor ratio	-	17	22	26	-
f _T	Gain band width product	$V_{CE}=6V, I_{E}=-10mA$	-	200	-	MHz

TYPICAL CHARACTERISTICS (Tr1, Tr2)









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