RT3NCCM

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

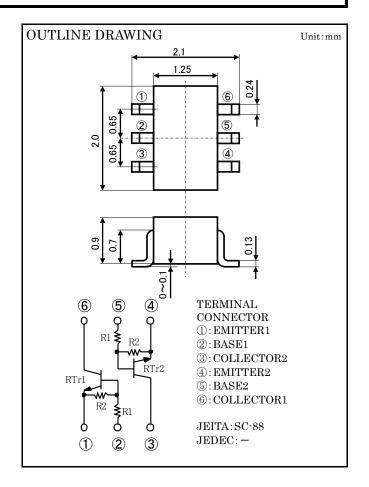
RT3NCCM is composite transistor built with two RT1N136 chips in SC-88 package.

FEATURE

Built-in bias resistor (R1=1 $k\Omega$, R2=10 $k\Omega$) Mini package for easy mounting

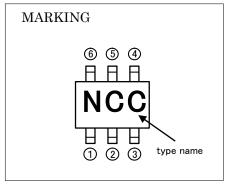
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING(Ta=25°C)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	RATING	UNIT
Vcbo	Collector to Base voltage	50	V
V_{EBO}	Emitter to Base voltage	6	V
V_{CEO}	Collector to Emitter voltage	50	V
V_{IN}	Input voltage	10	V
I_{C}	Collector current	100	mA
ICM	Peak Collector current	200	mA
PT	Total dissipation	200	mW
Tj	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C



$ELECTRICAL\ CHARACTERISTICS (Ta=25°C) (RTr1,\ RTr2\ COMMON)$

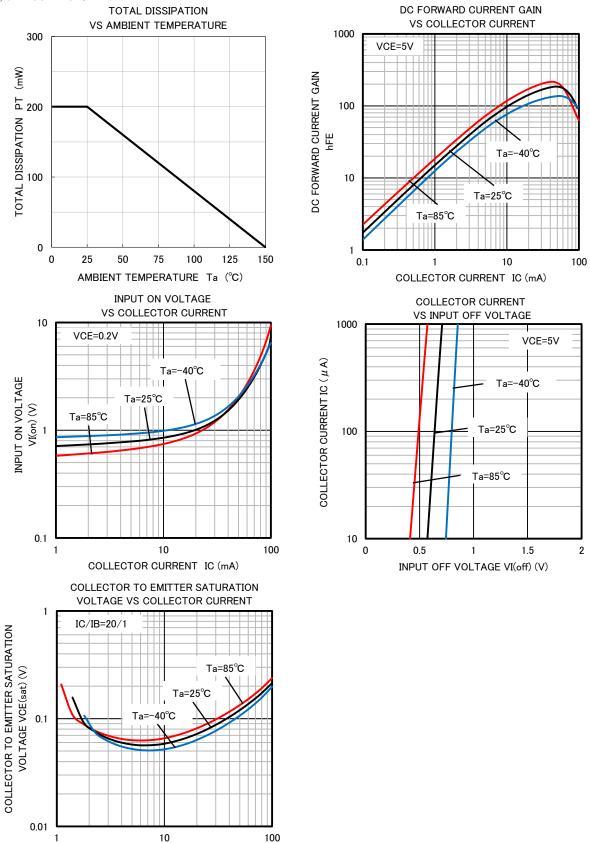
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			TINIIM
			MIN	TYP	MAX	UNIT
V(BR)CEO	Collector to Emitter breakdown voltage	I _C =100 μ A, R _{BE} =∞	50	_	_	V
ICBO	Collector cut off current	V_{CB} =50V, I_E =0	_	_	0.1	μΑ
IEBO	Emitter cut off current	V_{EB} =5V, I_C =0	332	443	642	μΑ
$_{ m hFE}$	DC forward current gain	V_{CE} =5V, I_{C} =5mA	33	_	_	_
VCE(sat)	Collector to Emitter saturation voltage	$I_C=10$ mA, $I_B=0.5$ mA	_	0.1	0.3	V
$V_{\rm I(ON)}$	Input on voltage	Vce=0.2V, Ic=5mA	_	0.7	1.2	V
$V_{\rm I(OFF)}$	Input off voltage	$V_{\rm CE} = 5V$, $I_{\rm C} = 100 \mu$ A	0.4	0.6	_	V
R_1	Input resistor	_	0.7	1.0	1.3	kΩ
R_2/R_1	Resistor ratio	_	8	10	12	_
fT	Gain band width product	V _{CE} =6V, I _E =-10mA	_	200	_	MHz

RT3NCCM

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

TYPICAL CHARACTERISTICS

(RTr1,RTr2 COMMON)



COLLECTOR CURRENT IC (mA)

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