RT3TCCM

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3TCCM is composite transistor built with RT1N136 chip and RT1P136 chip in SC-88 package.

FEATURE

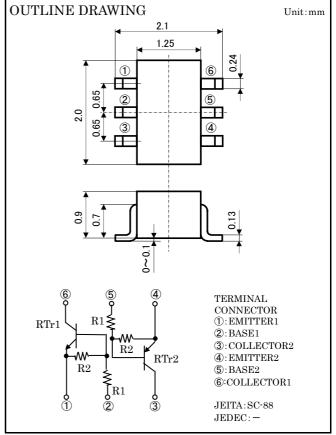
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

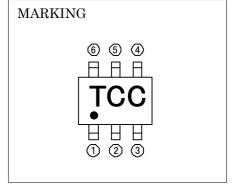
APPLICATION

Inverted circuit, Switching circuit, Interface circuit, Driver circuit



MAXIMUM RATING (Ta=25°C) (RTr1_NPN, RTr2_PNP)

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



※PNP built in transistor of "−"sign is abbreviation.

ELECTRICAL CHARACTERISTICS (Ta=25°C) (RTr1_NPN, RTr2_PNP)

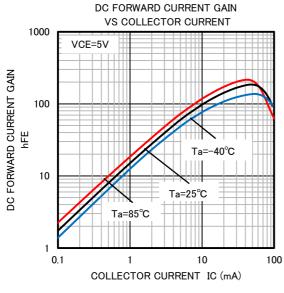
Symbol	Parameter	Test conditions		Limits			Unit
				Min		Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I c=100μA, R _{BE} =∞		50	_	_	V
ICBO	Collector cut off current	V_{CB} =50V, I $_{E}$ =0		_	_	0.1	μA
IEBO	Emitter cut off current	V_{EB} =5 V , I $_{C}$ =0		332	443	642	μA
$_{ m hFE}$	DC forward current gain	$V_{\rm CE}$ =5V, I $_{\rm C}$ =5mA		33	_	1	_
VCE(sat)	Collector to Emitter saturation voltage	ion voltage $I_{C} = 10$ mA, $I_{B} = 0.5$ mA		_	0.1	0.3	V
V _I (ON)	Input on voltage V_{CE} =0.2V, I $_{C}$ =5mA		_	0.7	1.2	V	
VI(OFF)	Input off voltage	$V_{\rm CE}$ =5 V , I $_{\rm C}$ =100 μ A		0.4	0.6	1	V
R_1	Input resistor	_		0.7	1.0	1.3	$k\Omega$
R_2/R_1	Resistor ratio	_		8	10	12	_
fT	Gain band width product	VCE=6V,IE=10mA	RTr1	_	200	_	MHz
			RTr2	_	150	_	мп

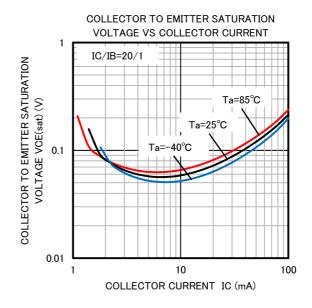
XPNP built in transistor of "−"sign is abbreviation.

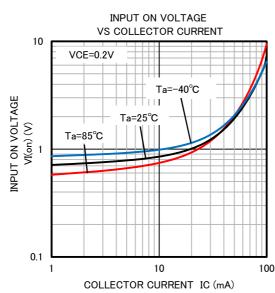
RT3TCCM

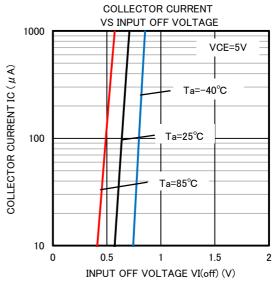
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TYPICAL CHARACTERISTICS (RTr1_NPN)





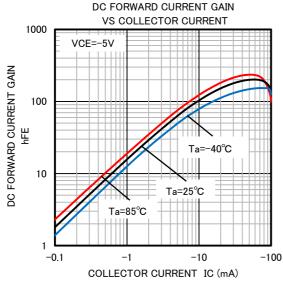


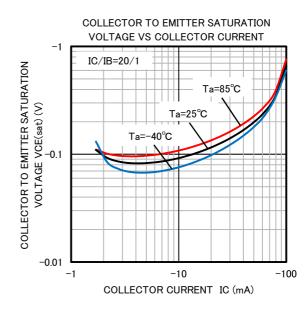


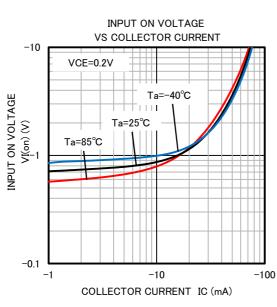
RT3TCCM

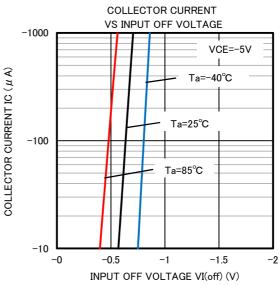
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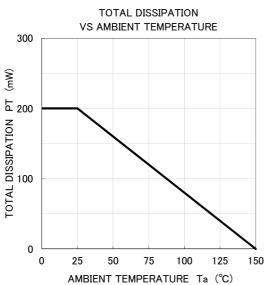
TYPICAL CHARACTERISTICS (RTr 2_PNP)













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