RT2P11M

Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

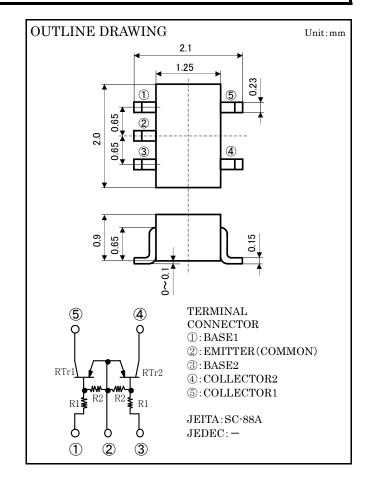
RT2P11M is composite transistor with built-in bias resistor.

FEATURE

Built-in bias resistor (R1=4.7k Ω , R2=22k Ω) Mini package for easy mounting

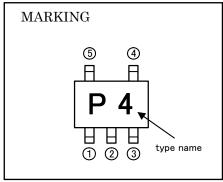
APPLICATION

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
VEBO	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-50	V
$V_{\rm IN}$	Input voltage	-30	V
Ic	Collector current	-100	mA
Icm	Peak Collector current	-200	mA
PT	Total dissipation	200	mW
Tj	Junction temperature	+150	°C
$T_{ m stg}$	Storage temperature	-55~+150	°C



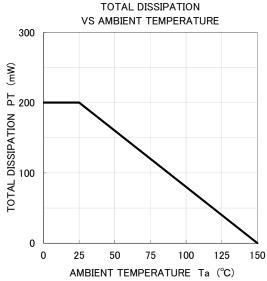
ELECTRICAL CHARACTERISTICS(Ta=25°C)(RTr1, RTr2 COMMON)

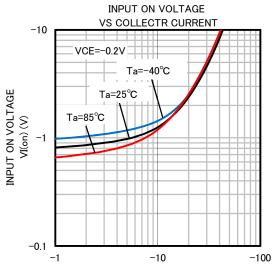
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			TINIIM
			MIN	TYP	MAX	UNIT
V(BR)CEO	Collector to Emitter breakdown voltage	I _C =-100 <i>μ</i> A, R _{BE} =∞	-50	_	_	V
Icbo	Collector cut off current	V _{CB} =-50V, I _E =0	_	_	-0.1	μΑ
IEBO	Emitter cut off current	V_{EB} =-5V, I_C =0	-147	-187	-259	μΑ
$_{ m hFE}$	DC forward current gain	V _{CE} =-5V, I _C =-5mA	50	_	_	_
VCE(sat)	Collector to Emitter saturation voltage	I_C =-10mA, I_B =-0.5mA	_	_	-0.3	V
$V_{\rm I(ON)}$	Input on voltage	V _{CE} =-0.2V, I _C =-5mA	_	-0.9	-1.7	V
$V_{\rm I(OFF)}$	Input off voltage	V_{CE} =-5V, I_{C} =-100 μ A	-0.5	-0.7	_	V
R_1	Input resistor	_	3.3	4.7	6.1	kΩ
R_2/R_1	Resistor ratio	_	4.2	4.7	5.1	_
f_{T}	Gain band width product	V _{CE} =-6V, I _E =10mA	_	150	_	MHz

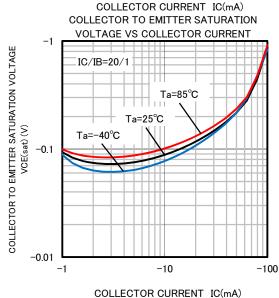
RT2P11M

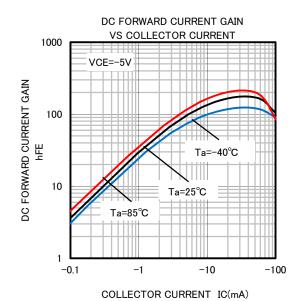
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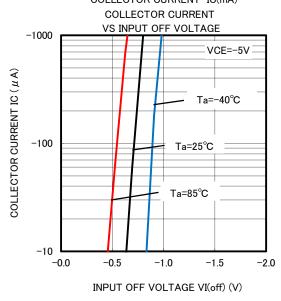
TYPICAL CHARACTERISTICS (RTr1,RTr2 COMMON)













Keep safety first in your circuit designs!

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