RT2P21M

Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

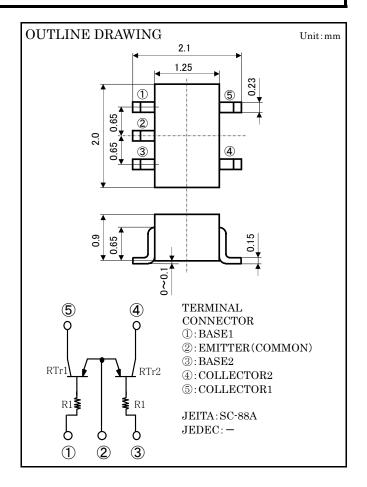
RT2P21M is composite transistor with built-in bias resistor.

FEATURE

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

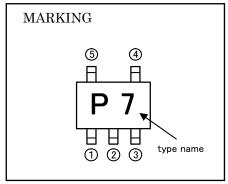
APPLICATION

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
Vebo	Emitter to Base voltage	-6	V
V_{CEO}	Collector to Emitter voltage	-50	V
Ic	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	္င



$ELECTRICAL\ CHARACTERISTICS (Ta=25^{\circ}\text{C}) (RTr1,\ RTr2\ COMMON)$

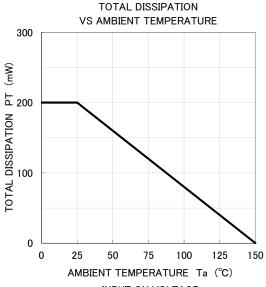
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			TINIIM
			MIN	TYP	MAX	UNIT
V(BR)CEO	Collector to Emitter breakdown voltage	I_{C} =-100 μ A, R_{BE} = ∞	-50	_	_	V
Icbo	Collector cut off current	V_{CB} =-50V, I_{E} =0	_	_	-0.1	μΑ
IEBO	Emitter cut off current	V_{EB} =-5V, I_{C} =0	_	_	-0.1	μΑ
hFE	DC forward current gain	V _{CE} =-5V, I _C =-1mA	100	_	_	_
VCE(sat)	Collector to Emitter saturation voltage	I _C =-10mA, I _B =-0.5mA	_	_	-0.3	V
R ₁	Input resistor	_	7	10	13	kΩ
$ m f_{T}$	Gain band width product	V _{CE} =-6V, I _E =10mA	_	150	_	MHz

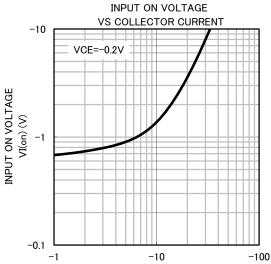
RT2P21M

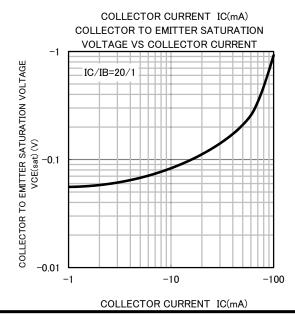
Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

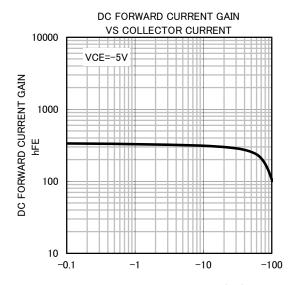
TYPICAL CHARACTERISTICS

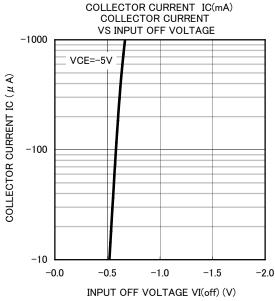
(Ta=25°C)(RTr1,RTr2 COMMON)













Keep safety first in your circuit designs!

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