RT2P15M

Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

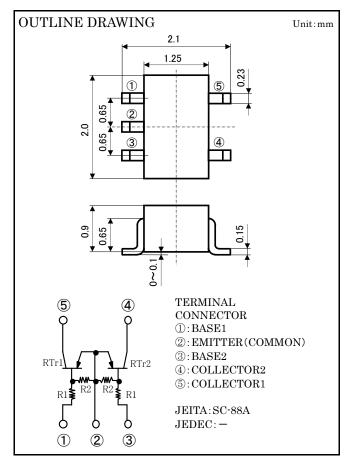
RT2P15M is composite transistor with built-in bias resistor.

FEATURE

Built-in bias resistor (R1= $22k\Omega$, R2= $47k\Omega$) Mini package for easy mounting

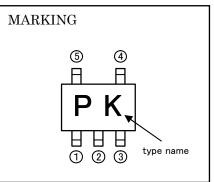
APPLICATION

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	-10	V
VCEO	Collector to Emitter voltage	-50	V
$V_{\rm IN}$	Input voltage	-40	V
IC	Collector current	-100	mA
ICM	Peak Collector current	-200	mA
Рт	Total dissipation	200	mW
Tj	Junction temperature	+150	°C
$T_{\rm stg}$	Storage temperature	-55~+150	°C



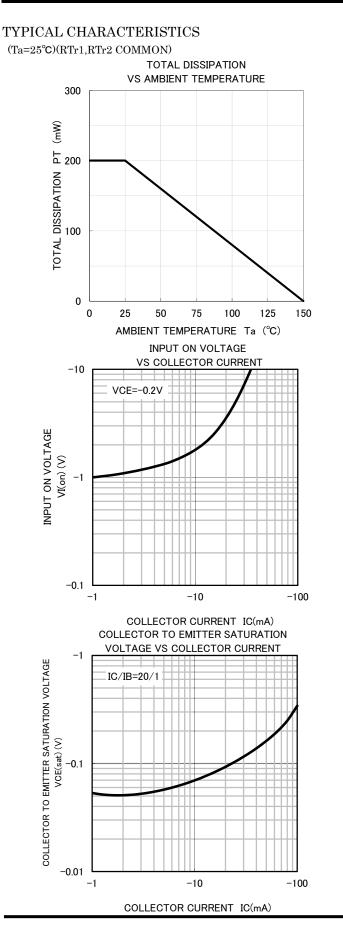
ELECTRICAL CHARACTERISTICS(Ta=25°C)(RTr1, RTr2 COMMON)

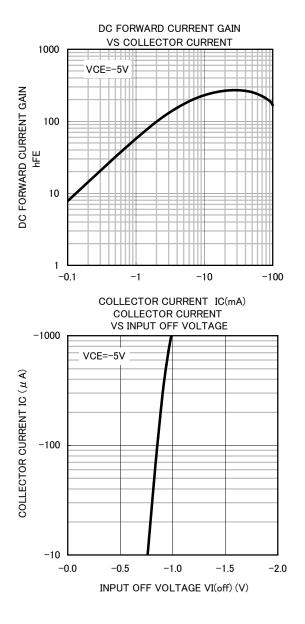
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	UNIT
V(BR)CEO	Collector to Emitter breakdown voltage	$I_C=-100 \mu$ A, $R_{BE}=\infty$	-50	_	-	V
Ісво	Collector cut off current	V _{CB} =-50V, I _E =0	—	_	-0.1	μA
IEBO	Emitter cut off current	V_{EB} =-5V, I_C =0	-54	-72	-105	μA
hfe	DC forward current gain	V _{CE} =-5V, I _C =-5mA	68	_	_	_
VCE(sat)	Collector to Emitter saturation voltage	I _C =-10mA, I _B =-0.5mA	—	_	-0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =-0.2V, I _C =-5mA	—	-1.2	-3.0	V
$V_{\mathrm{I(OFF)}}$	Input off voltage	V_{CE} =-5V, I _C =-100 μ A	-0.6	-0.8	—	V
R_1	Input resistor	-	15	22	29	kΩ
R_2/R_1	Resistor ratio	-	1.7	2.1	2.6	_
f_{T}	Gain band width product	V_{CE} =-6V, I _E =10mA	_	150	_	MHz

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