RT2P16M

Composite Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DESCRIPTION

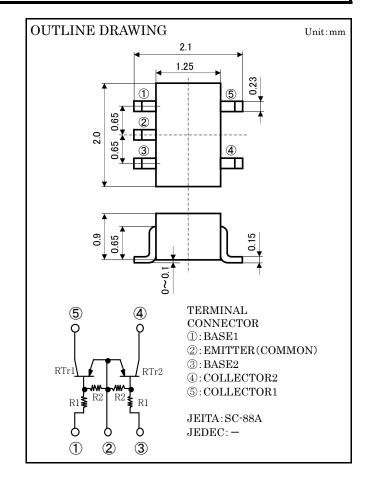
RT2P16M is composite transistor with built-in bias resistor.

FEATURE

Built-in bias resistor (R1=47k Ω , R2=10k Ω) Mini package for easy mounting

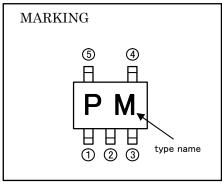
APPLICATION

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	-15	V	
$V_{\rm CEO}$	Collector to Emitter voltage	-50	V	
$V_{\rm IN}$	Input voltage	-40	V	
Ic	Collector current	-100	mA	
I_{CM}	Peak Collector current	-200	mA	
PT	Total dissipation	200	mW	
Tj	Junction temperature	+150	°C	
$T_{ m stg}$	Storage temperature	-55~+150	လူ	



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

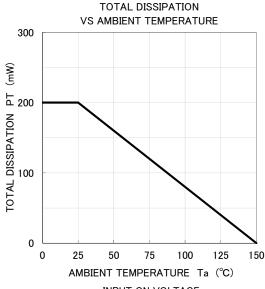
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			TINITE
			MIN	TYP	MAX	UNIT
V(BR)CEO	Collector to Emitter breakdown voltage	$I_C=-100 \mu$ A, $R_{BE}=\infty$	-50	_	_	V
Icbo	Collector cut off current	V _{CB} =-50V, I _E =0	_	_	-0.1	μΑ
IEBO	Emitter cut off current	V_{EB} =-5V, I_C =0	-66	-88	-127	μΑ
hfe	DC forward current gain	V _{CE} =-5V, I _C =-5mA	33	_	_	_
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	_	-4.2	-8.9	V
$V_{\rm I(OFF)}$	Input off voltage	$V_{\rm CE}$ =-5V, $I_{\rm C}$ =-100 μ A	-2.3	-3.1	_	V
R ₁	Input resistor	_	33	47	61	kΩ
R_2/R_1	Resistor ratio	_	0.17	0.21	0.26	_
f_{T}	Gain band width product	V _{CE} =-6V, I _E =10mA	_	150	_	MHz

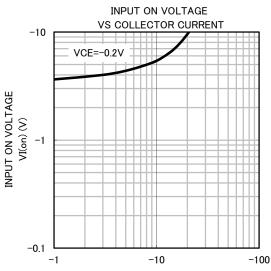
RT2P16M

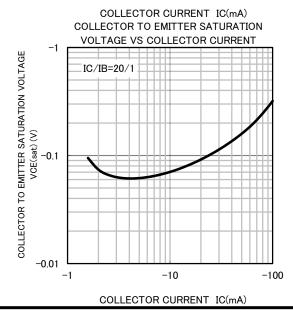
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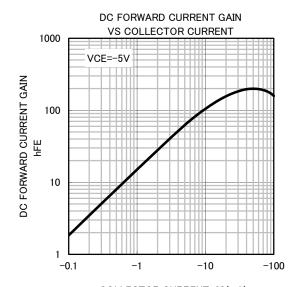
TYPICAL CHARACTERISTICS

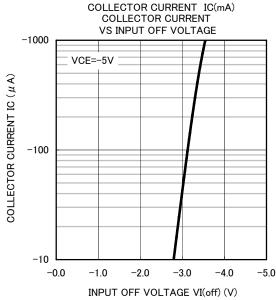
(Ta=25°C)(RTr1,RTr2 COMMON)













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