RT3PEEM

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

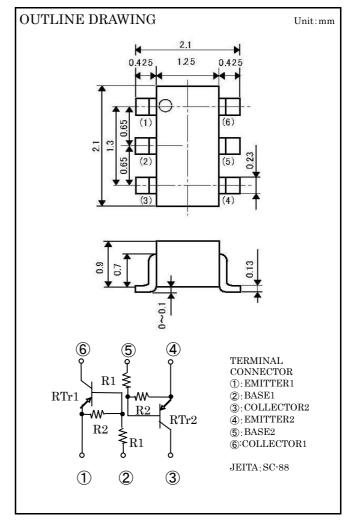
RT3PEEM is compound transistor built with two RT1P234 chips in SC-88 package.

FEATURE

Silicon epitaxial type Each transistor elements are independent. Mini package for easy mounting

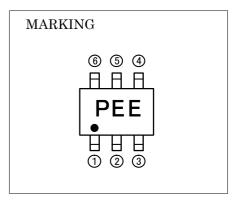
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25°C) (RTr1, RTr2)

SYMBOL	PARAMETER	RATING	UNIT
VCBO	Collector to Base voltage	-50	V
VEBO	Emitter to Base voltage	-6	V
VCEO	Collector to Emitter voltage	-50	V
$V_{\rm IN}$	Input voltage	-12	V
IC	Collector current	-100	mA
ICM	Peak Collector current	-200	mA
PC	Collector dissipation (Total, Ta= $25^{\circ}C$)	150	mW
Tj	Junction temperature	+150	°C
$\mathrm{T}_{\mathrm{stg}}$	Storage temperature	-55~+150	°C



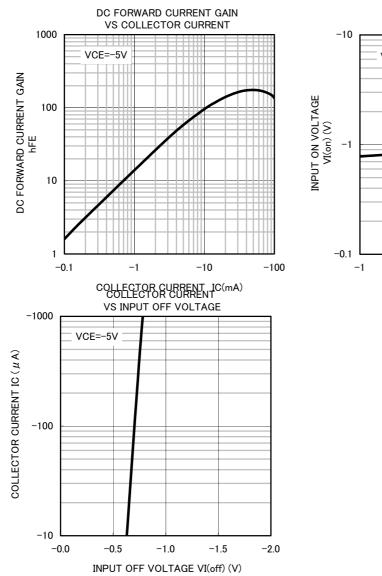
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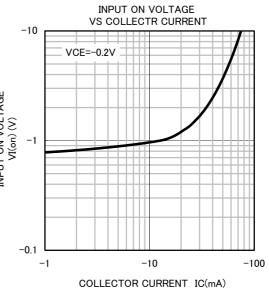
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Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	I с=-100µА, R _{BE} =∞	-50	-	-	V
ICBO	Collector cut off current	V _{CB} =-50V, I _E =0	-	-	-0.1	μA
hfe	DC forward current gain	V_{CE} =-5V, I _C =-10mA	33	-	-	-
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	-	-0.8	-1.4	V
$V_{I\left(OFF\right) }$	Input off voltage	V_{CE} =-5V, I _C =-100 μ A	-0.5	-0.7	-	V
R1	Input resistor		1.5	2.2	2.9	kΩ
R_2/R_1	Resistor ratio		3.8	4.7	5.6	-
fT	Gain band width product	V _{CE} =-6V, I _E =10mA,f=100MHz	_	150	-	MHz

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

TYPICAL CHARACTERISTICS (RTr1,RTr2)







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