Composite Transistor For Low Frequency Amplify Application Silicon Epitaxial Type

AEC-Q101 Compliance

DESCRIPTION

RT3WLMM is compound transistor built with 2SC3052 chip and ISA1235A chip in SC-88 package.

FEATURE

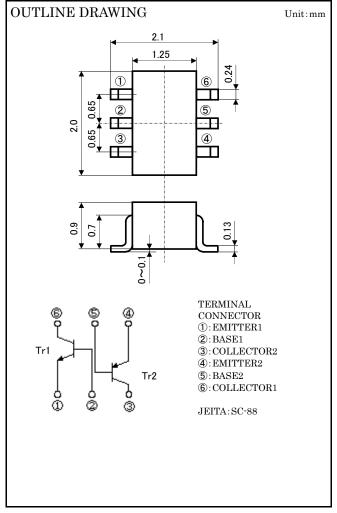
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

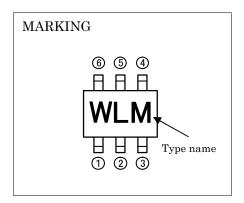
APPLICATION

For low frequency amplify application



MAXIMUM RATING (Ta=25°C) (Tr1_NPN, Tr2_PNP)

SYMBOL	PARAMETER	RAT	ING	UNIT	
SIMBOL	FARAWEIER		Tr2	UNII	
Vcbo	Collector to Base voltage	50	-60	V	
VEBO	Emitter to Base voltage	6	-6	V	
VCEO	Collector to Emitter voltage	50	-50	V	
I_{C}	Collector current	200	-200	mA	
PT	Total dissipation	200		mW	
Tj	Junction temperature	+150		ပ္	
$T_{ m stg}$	Storage temperature	-55 ~ +150		°C	



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ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1_NPN, Tr2_PNP)

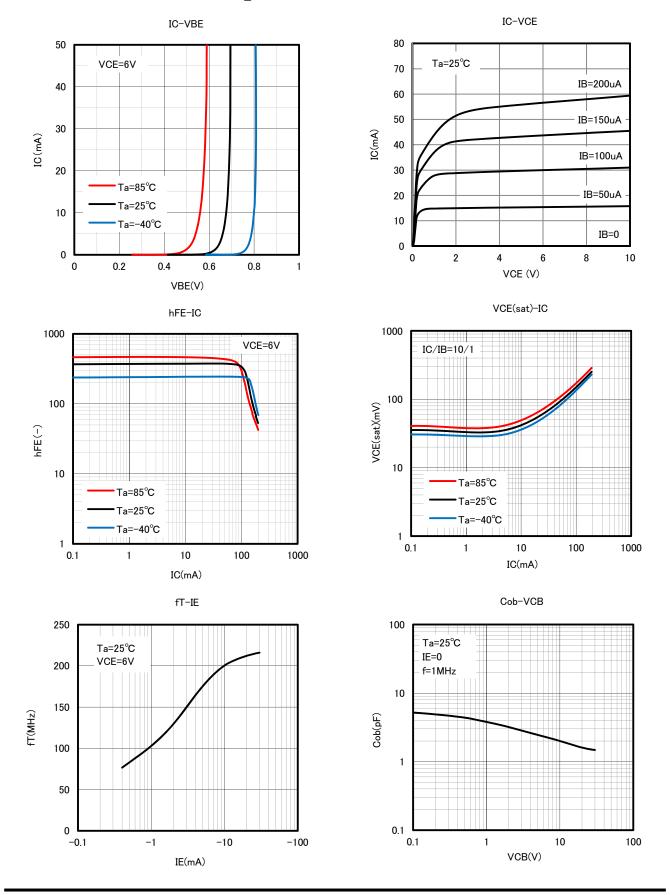
G 1.1	D	m , 1:7:		Limits			TT 14
Symbol	Parameter		Test conditions		Тур	Max	Unit
V(BR)CEO	Collector to Emitter breakdown voltage	Tr1	I _C =100 μ A,R _{BE} =∞	50	-	-	V
		Tr2	I _C =-100 <i>μ</i> A,R _{BE} =∞	-50	-	_	
Icbo	Collector cut off current	Tr1	V_{CB} =50 V_{IE} =0	_	_	0.1	μΑ
		Tr2	V _{CB} =-60V,I _E =0	_	_	-0.1	
I _{EBO}	Emitter cut off current	Tr1	VEB=6V,Ic=0	-	-	0.1	μΑ
		Tr2	VEB=-6V,I _C =0	-	-	-0.1	
1	DC forward current gain	Tr1	V _{CE} =6V,I _C =1mA	150	_	500	-
hFE*		Tr2	VCE=-6V,IC=-1mA				
hFE	DC forward current gain	Tr1	Vce=6V,Ic=0.1mA	90	_	-	_
		Tr2	Vce=-6V,Ic=-0.1mA				
VCE(sat)	Collector to Emitter saturation voltage	Tr1	Ic=100mA,IB=10mA	-	-	0.3	V
		Tr2	I _C =-100mA,I _B =-10mA	-	-	-0.3) ^v
$ m f_{T}$	Gain band width product	Tr1	VCE=6V,IE=-10mA		200	_	$\mathrm{MH_{Z}}$
		Tr2	VCE=-6V,IE=10mA	_			
Cob	Collector output capacitance	Tr1	V_{CB} =6 V , I_{E} =0, f =1 MH_{Z}	-	2.5	-	pF
		Tr2	V_{CB} =-6V, I_{E} =0, f =1MH $_{Z}$	-	4.0	-	
NF	Noise figure	Tr1	V_{CE} =6 V_{A} =-0.1 m A,f=1 k Hz,R _G =2 k Ω	_	-	15	dB
		Tr2	V_{CE} =-6V, I_{E} =0.3mA, f =100Hz, R_{G} =10k Ω	_	-	20	

^{*:} It shows hee classification in right table.

Item	E	F
hFE	150~300	250~500

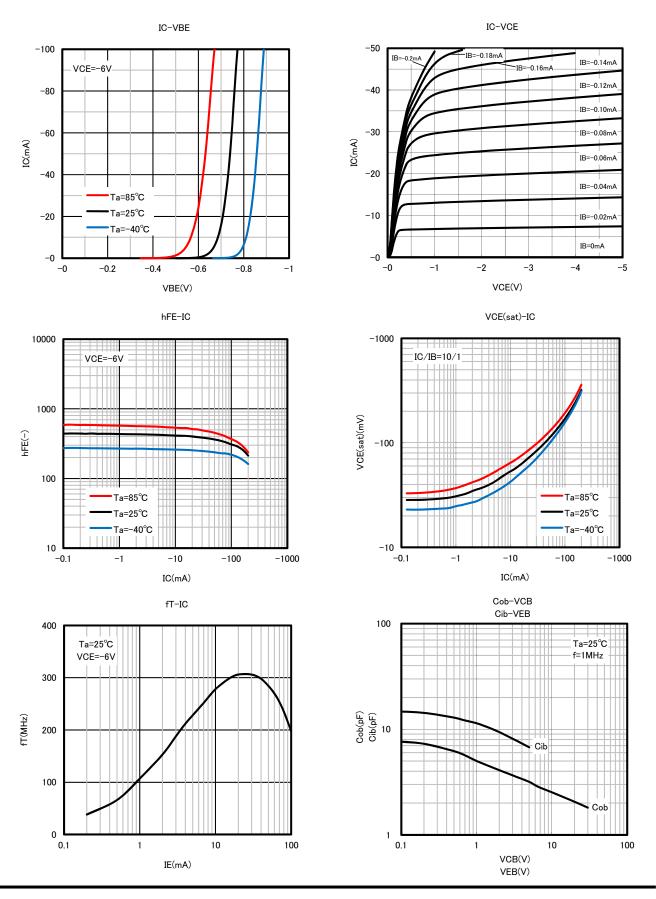
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TYPICAL CHARACTERISTICS (Tr1_NPN)



Composite Transistor For Low Frequency Amplify Application Silicon Epitaxial Type

TYPICAL CHARACTERISTICS (Tr2_PNP)





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