RT3CXXM

Composite Transistor For Muting Application Silicon NPN Epitaxial Type

DESCRIPTION

RT3CXXM is compound transistor built with two INC2002A chips in SC-88 package.

FEATURE

- •Small package for easy mounting.
- ●High reverse hfe
- \bullet Small collector to emitter saturation voltage.

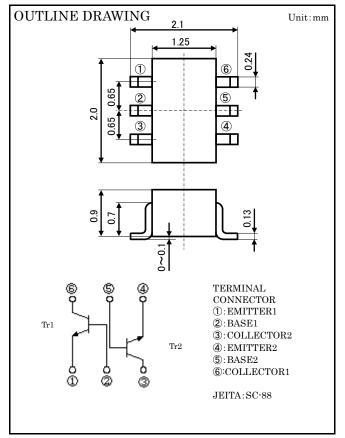
 $V_{CE(sat)}$ =40m $V_{(TYP)}$ (@ I_{C} =50mA/ I_{B} =2.5mA)

●Low on Resistance

 R_{ON} =0.65 Ω (TYP.) (@ I_B =5mA)

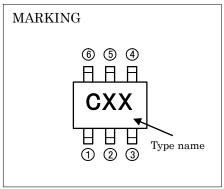
APPLICATION

muting circuit, switching circuit



MAXIMUM RATING (Ta=25°C) (Tr1, Rr2)

SYMBOL	PARAMETER	RATING	UNIT
Vcbo	Collector to Base voltage	50	V
Vebo	Emitter to Base voltage	50	V
VCEO	Collector to Emitter voltage	20	V
Ic	Collector current	600	mA
Рт	Total dissipation	200	mW
Tj	Junction temperature	+150	ပ
$T_{ m stg}$	Storage temperature	-55~+150	°C



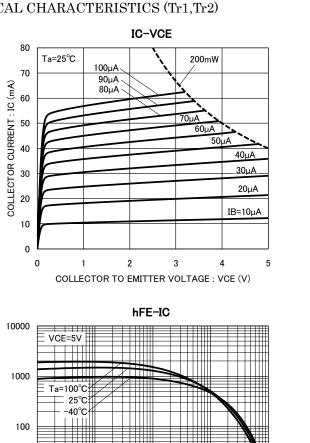
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1, Rr2)

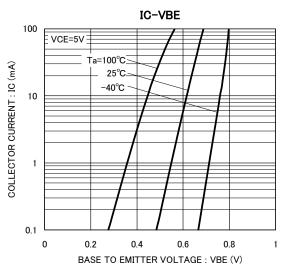
Symbol	Parameter	Test conditions	Limits			TT 14
			Min	Тур	Max	Unit
V _{(BR)CBO}	C to B break down voltage	$I_{\rm C} = 50 \mu A, I_{\rm E} = 0$	50	_	_	V
$V_{\rm (BR)EBO}$	E to B break down voltage	$I_{E}=50\mu A,\ I_{C}=0$	50	_	_	V
V _{(BR)CEO}	C to E break down voltage	I _C =1mA, R _{BE} =∞	20	_	_	V
I_{CBO}	Collector cut off current	V_{CB} =50V, I_{E} =0	ı	_	0.5	μΑ
I_{EBO}	Emitter cut off current	V_{EB} =50V, I_{C} =0	ı	_	0.5	μΑ
${ m h}_{ m FE}$	DC forward current gain	$V_{CE}=5V$, $I_{C}=10mA$	820	_	2500	_
$V_{\mathrm{CE}(\mathrm{sat})}$	C to E saturation voltage	I _C =50mA, I _B =2.5mA	ı	40	150	mV
\mathbf{f}_{T}	Gain band width product	V_{CE} =10V, I_{E} =-10mA, f=100MHz	ı	40	_	MHz
C_{ob}	Collector output capacitance	V_{CB} =10V, I_{E} =0, f =1MHz	ı	4.0	_	pF
Ron	Output "ON" resistance	$I_B=5mA$, $R_L=1k\Omega$		0.65	_	Ω

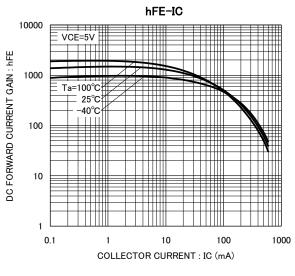
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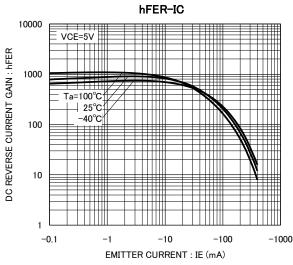
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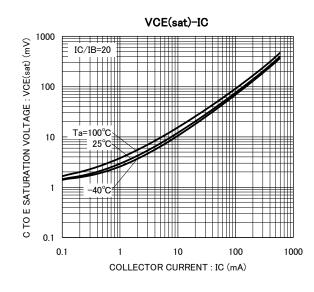
TYPICAL CHARACTERISTICS (Tr1,Tr2)

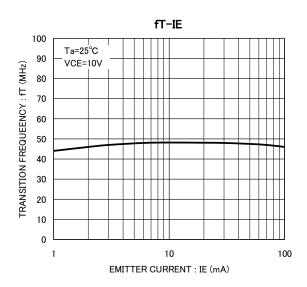






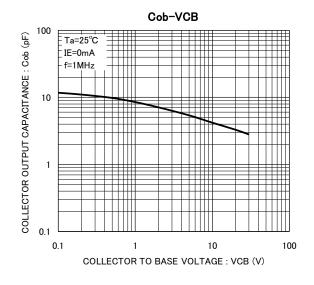


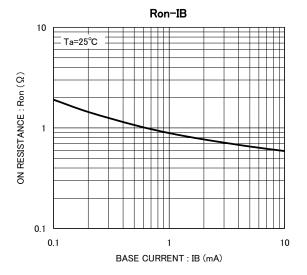




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