RT3XAAM

Composite Transistor With Resistor For Muting Application Silicon Epitaxial Type

DESCRIPTION

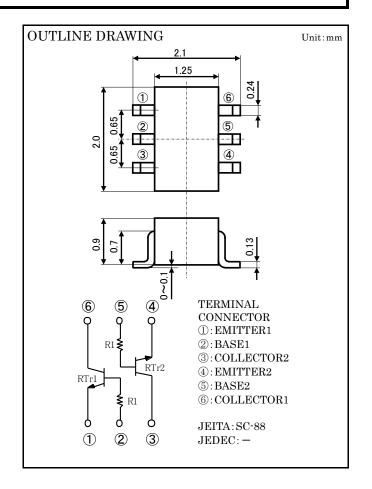
RT3XAAM is composite transistor built with two RTAN430 chips in SC-88 package.

FEATURE

- Built-in bias resistor (R_1 =4.7 $k\Omega$)
- Mini package for easy mounting
- High reverse hfe.
- ullet Small collector to emitter saturation voltage. $V_{CE(sat)}=10mV(TYP.)$ (@Ic=10mA/I_B=0.5mA)
- Low on Resistor. $R_{ON}=0.80 \Omega (TYP.) (@V_I=5V)$

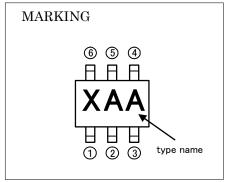
APPLICATION

Muting circuit, Switching circuit



MAXIMUM RATING(Ta=25°C)(RTr1, RTr2 COMMON)

SYMBOL	PARAMETER	RATING	UNIT	
Vcbo	Collector to Base voltage	40	V	
V_{EBO}	Emitter to Base voltage	40	V	
VCEO	Collector to Emitter voltage	20	V	
Ic	Collector current	400	mA	
P_{T}	Total dissipation	150	mW	
Tj	Junction temperature	+150	°C	
T_{stg}	Storage temperature	-55~+150	ပ္	



${\bf ELECTRICAL\ CHARACTERISTICS} (Ta=25°C) (RTr1,\ RTr2\ COMMON)$

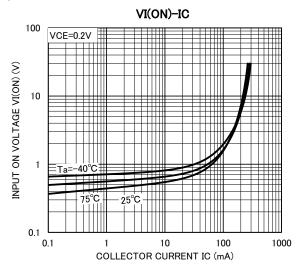
SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			TINIIM
			MIN	TYP	MAX	UNIT
V(BR)CBO	Collector to Base breakdown voltage	$I_{\rm C} = 50 \mu$ A, $I_{\rm E} = 0$	40	_	_	V
V(BR)EBO	Emitter to Base breakdown voltage	$I_E=50 \muA,\ I_C=0$	40	_	_	V
V(BR)CEO	Collector to Emitter breakdown voltage	I _C =1mA, R _{BE} =∞	20	_	_	V
Icbo	Collector cut off current	V_{CB} =40V, I_{E} =0	_	_	0.5	μΑ
IEBO	Emitter cut off current	V_{EB} =40V, I_{C} =0	_	_	0.5	μΑ
$_{ m h_{FE}}$	DC forward current gain	V _{CE} =5V, I _C =10mA	820	_	2500	_
VCE(sat)	Collector to Emitter saturation voltage	I _C =10mA, I _B =0.5mA	_	10	_	mV
R_1	Input resistor	_	3.29	4.7	6.11	kΩ
fT	Gain band width product	V_{CE} =10V, I_{E} =-10mA, f=100MHz	_	38	_	MHz
Ron	Output On-resistor	$V_I=5V$, $R_L=1k\Omega$	_	0.80	_	Ω

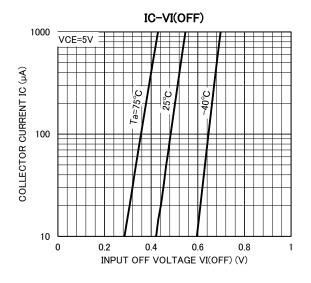
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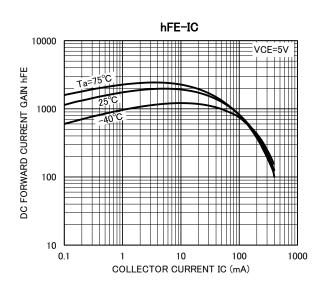
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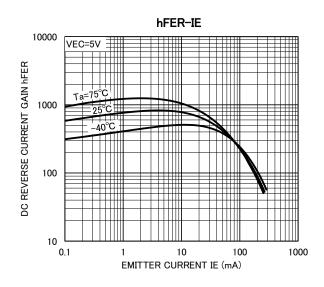
TYPICAL CHARACTERISTICS

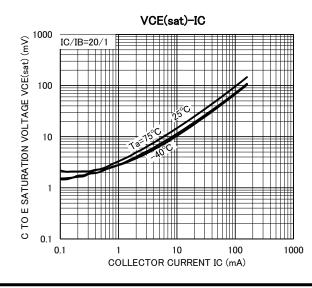
(RTr1,RTr2 COMMON)

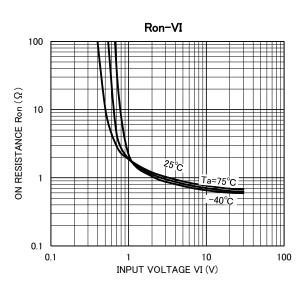












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