RT3XBBM

Composite Transistor For Muting Application Silicon NPN Epitaxial Type

DESCRIPTION

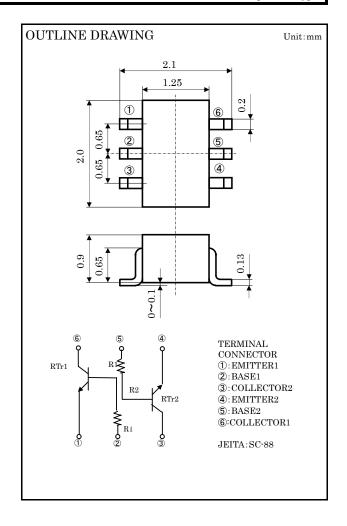
RT3XBBM is a composite transistor with built-in bias resistor

FEATURE

- lacktriangle Built-in bias resistor (R1=10 K Ω)
- Mini package for easy mounting

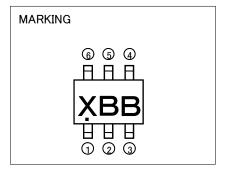
APPLICATION

muting circuit, switching circuit



MAXIMUM RATINGS (Ta=25°C) (RTr1, RTr2)

Symbol	Parameter	Ratings	
V _{CBO}	Collector to Base voltage	40	٧
V _{EBO}	Emitter to Base voltage	40	٧
V _{CEO}	Collector to Emitter voltage	20	٧
I c	Collector current	400	mA
P _c	Collector dissipation (Total Ta=25°C)	150	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55 ~ +150	°C



ISAHAYA ELECTRONICS CORPORATION

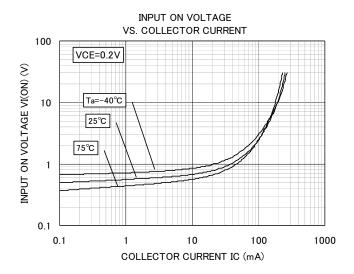
RT3XBBM

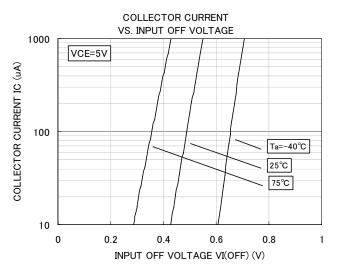
Composite Transistor For Muting Application Silicon NPN Epitaxial Type

Electrical characteristics (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V _{CBO}	Collector-base breakdown voltage	I₀=50 μ A , Iε=0mA	40			٧
VEBO	Emitter-base breakdown voltage	I _E =50 μ A , c=0mA	40			٧
Vceo	Collector-emitter breakdown voltage	Ic=1mA , R _{BE} =∞	20			٧
Ісво	Collector cutoff current	VcB=40V , IE=0mA			0.5	μΑ
I EBO	Emitter cutoff current	V _{EB} =40V , Ic=0mA			0.5	μΑ
hfE	DC current transfer ratio	VcE=5V , Ic=-10mA	820		2500	-
VCE(sat)	Collector-emitter saturation voltage	Ic=10mA , I _B =0.5mA		10		mV
R1	Input resistance	-	7	10	13	ΚΩ
fT	Transition frequency	V _{CE} =10V, I _E =-10mA, f=100MHz		35		MHz
Ron	Output On-resistance	V _I =7V, f=1MHz		0.94		Ω

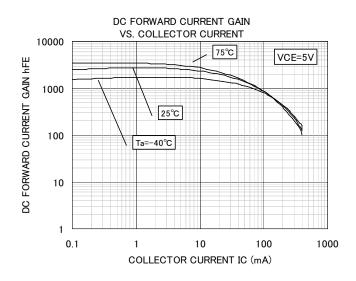
TYPICAL CHARACTERISTICS (Tr1, Tr2)

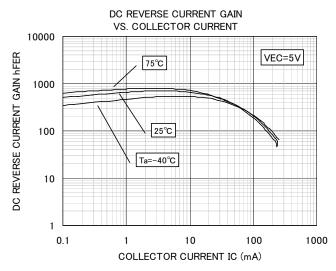


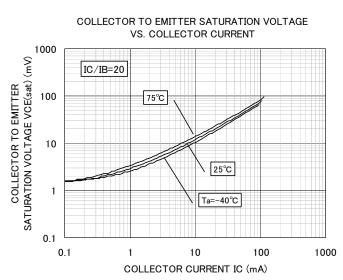


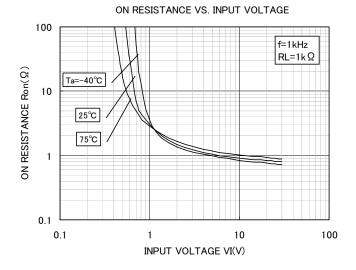
RT3XBBM

Composite Transistor For Muting Application Silicon NPN Epitaxial Type











Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

Keep safety first in your circuit designs!

•ISAHAYA Electronics Corporation puts the maximum effort into making semiconductor products better and more reliable, but there is always the possibility that trouble may occur with them. Trouble with semiconductors may lead to personal injury, fire or property damage. Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (1) placement of substitutive, auxiliary, (2) use of non-farmable material or (3) prevention against any malfunction or mishap.

- Notes regarding these materials

 These materials are intended as a reference to our customers in the selection of the ISAHAYA products best suited to the customer's application; they don't convey any license under any intellectual property rights, or any other rights, belonging ISAHAYA or third party.

 - ISAHAYA or third party.

 -ISAHAYA Electronics Corporation assumes no responsibility for any damage, or infringement of any third party's rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in these materials.

 -All information contained in these materials, including product data, diagrams and charts, represent information on products at the time of publication of these materials, and are subject to change by ISAHAYA Electronics Corporation without notice due to product improvements or other reasons. It is therefore recommended that customers contact ISAHAYA Electronics Corporation or an authorized ISAHAYA products distributor for the latest product information before purchasing product listed
 - herein.
 -ISAHAYA Electronics Corporation products are not designed or manufactured for use in a device or system that is used under circumstances in which human life is potentially at stake. Please contact ISAHAYA electronics corporation or an authorized ISAHAYA products distributor when considering the use of a product contained herein for any specific purposes, such as apparatus or systems for transportation, vehicular, medical, aerospace, nuclear, or undersea repeater use.
 - The prior written approval of ISAHAYA Electronics Corporation is necessary to reprint or reproduce in whole or in part these
 - If these products or technologies are subject to the Japanese export control restrictions, they must be exported under a license from the Japanese government and cannot be imported into a country other than the approved destination. Any diversion or re-export contrary to the export control laws and regulations of Japan and/or the country of destination is -Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these
 - materials or the products contained therein.