RT2N65M

Composite Transistor For Muting Application Silicon NPN Epitaxial Type

DESCRIPTION

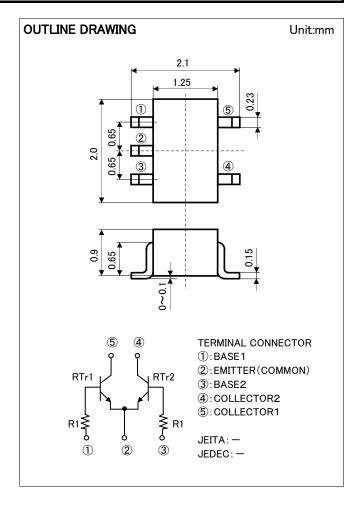
RT2N65M is a composite transistor with built-in bias resistor

FEATURE

- Built-in bias resistor (R_1 =10 k Ω)
- Mini package for easy mounting

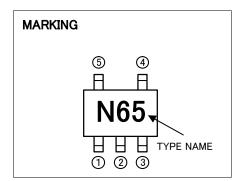
APPLICATION

muting circuit, switching circuit



MAXIMUM RATINGS (Ta=25°C)(RTr1, RTr2)

Symbol	Parameter Ratings		Unit
V_{CBO}	Collector to Base voltage	40	٧
V_{EBO}	Emitter to Base voltage	40	٧
V_{CEO}	Collector to Emitter voltage	20	٧
$I_{\rm C}$	Collector current	400	mA
P_{T}	Total dissipation	150	mW
T _j	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55 ~ +150	°C



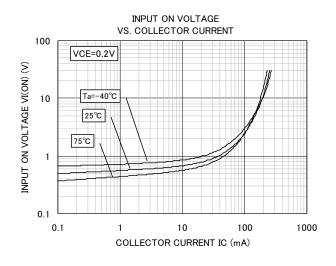
RT2N65M

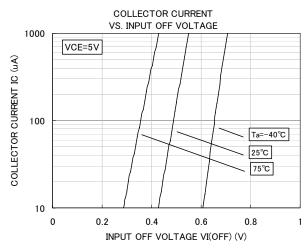
Composite Transistor For Muting Application Silicon NPN Epitaxial Type

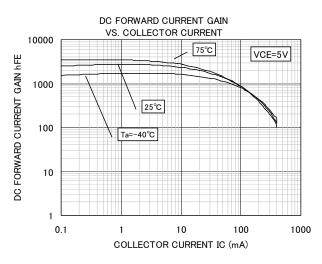
ELECTRICAL CHARACTERISTICS (Ta=25°C)(RTr1, RTr2 Common)

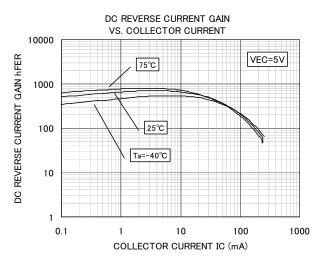
Symbol	Parameter	Test conditions	Limits			1124
			Min	Тур	Max	Unit
V _{CBO}	Collector-base breakdown voltage	$I_{\rm C} = 50 \mu$ A, $I_{\rm E} = 0$ mA	40	-	_	٧
V _{EBO}	Emitter-base breakdown voltage	$I_E=50 \mu A$, $I_C=0mA$	40	_	_	٧
V _{CEO}	Collector-emitter breakdown voltage	I _C =1mA, R _{BE} =∞	20	_	-	٧
I _{CBO}	Collector cutoff current	V _{CB} =40V, I _E =0mA	_	_	0.5	μΑ
I _{EBO}	Emitter cutoff current	V _{EB} =40V, I _C =0mA	_	_	0.5	μΑ
h _{FE}	DC current transfer ratio	V_{CE} =5V, I_{C} =-10mA	820	_	2500	-
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =10mA, I _B =0.5mA	_	10	_	mV
R ₁	Input resistor	-	7	10	13	kΩ
f _T	Transition frequency	V _{CE} =10V, I _E =-10mA, f=100MHz	-	35	_	MHz
R _{on}	Output On-resistor	V _I =7V, f=1MHz	_	0.94	_	Ω

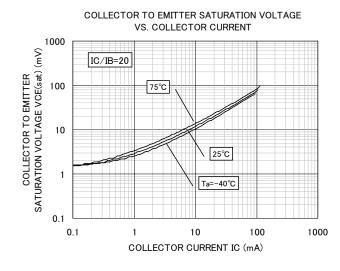
TYPICAL CHARACTERISTICS (RTr1, RTr2 Common)

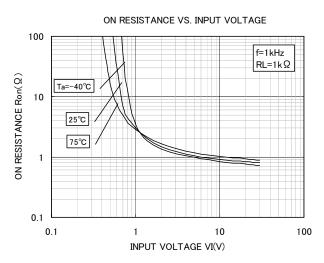














Keep safety first in your circuit designs!

-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 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 materials.
- 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 prohibited.
- Please contact ISAHAYA Electronics Corporation or authorized ISAHAYA products distributor for further details on these materials or the products contained therein.