RT2N65M

Composite Transistor For Muting Application Silicon NPN Epitaxial Type

DESCRIPTION

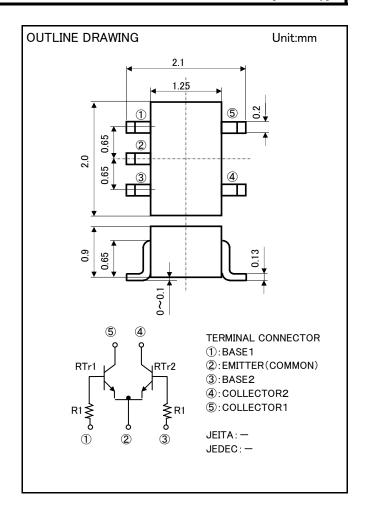
 $\ensuremath{\mathsf{RT2N65M}}$ is a composite transistor with built-in bias resistor

FEATURE

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

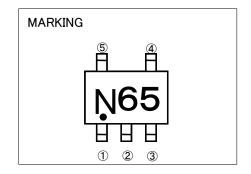
APPLICATION

muting circuit, switching circuit



MAXIMUM RATINGS (Ta=25°C)(RTr1,RTr2)

Symbol	Parameter	Ratings	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 _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



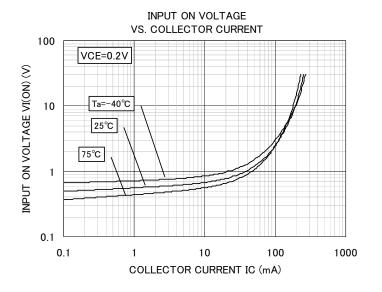
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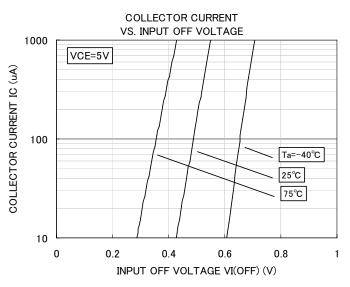
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Electrical characteristics (Ta=25°C)

Symbol	Parameter	Test conditions	Limits			Unit
		lest conditions		Тур	Max	Unit
V _{CBO}	Collector-base breakdown voltage	Ic=50 μ A , Iε=0mA	40			٧
V _{EBO}	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	V _{CB} =40V , I _E =0mA			0.5	μΑ
І ЕВО	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 , Iв=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

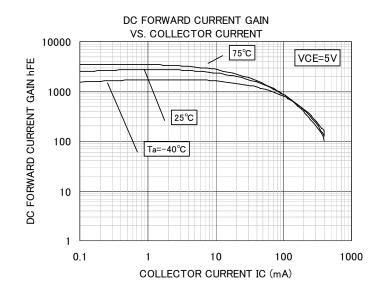
TYPICAL CHARACTERISTICS (Tr1, Tr2)

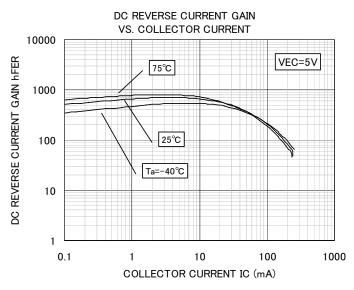


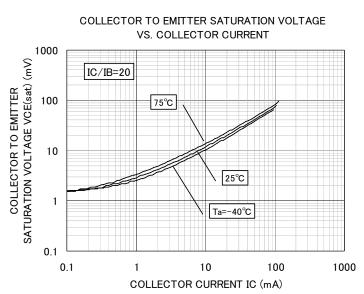


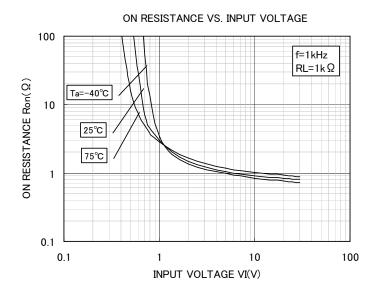
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Marketing division, Marketing planning department

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

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