ISC5804AT2

Low frequency Application Silicon NPN Epitaxial Type

DESCRIPTION

2SC5804 is a super mini package resin sealed

silicon NPN epitaxial transistor,

It is designed for low frequency application.

Since it is a super-thin flat lead type package, a high-density

mounting are possible.

Complementary with 2SC3052.

FEATURE

www.DataSheeSuper-thin flat lead type package. t=0.45mm

Excellent linearly of DC forward current gain.

 Low collector to emitter saturation voltage VCE(sat)=0.3V max (@Ic=100mA/IB=10mA)

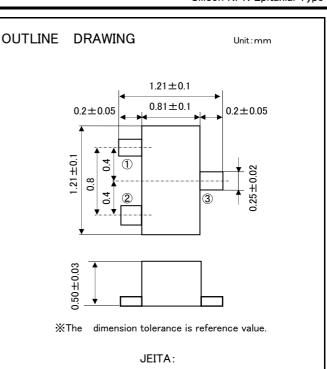
APPLICATION

For hybrid IC,small type machine low frequency voltage amplify application.

MAXIMUM RATING(Ta=25°C)

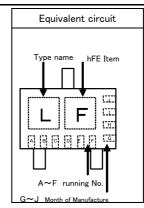
SYMBOL	PARAMETER	RATING	UNIT
VCBO	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	50	V
IC	Collector current	150	mA
PC	Collector dissipation(Ta=25°C)	150 ^(*)	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55 ~ + 125	°C

%package mounted on 9mm × 19mm × 1mm glass-epoxy substrate.



Terminal Connector

- ①:Base
- 2:Emitter
- 3:Collector



ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
STMBOL	PARAMETER	TEST CONDITION	MIN	TYP	MIN	TYP
Collector to Emitter Breakdown voltage	V(BR)CEO	$I_c=100 \mu$ A, R _{BE} = ∞	50	-	_	V
Collector cut off current	Ісво	V _{CB} =50V, I _E =0mA	-	-	0.1	μA
Emitter cut off current	IEBO	V _{EB} =6V, I _C =0mA	-	-	0.1	μA
DC forward current gain	hFE	V_{CE} =6V, I c=1mA	150	*	800	-
DC forward current gain	hFE	V _{CE} =6V, I _C =0.1mA	90	-	-	-
C to E saturation voltage	VCE(sat)	I _c =100mA, I _B =10mA	-	-	0.3	v
Gain bandwidth product	fT	V _{CE} =6V, I _E =-10mA	-	200	-	MHz
Collector output capacitance	Cob	V _{CB} =6V, I _E =0mA,f=1MHz	-	2.5	-	pF
Noise figure	NF	V _{CE} =6V, I _E =-0.1mA,f=1kHz,RG=2k Ω	-	-	15	dB

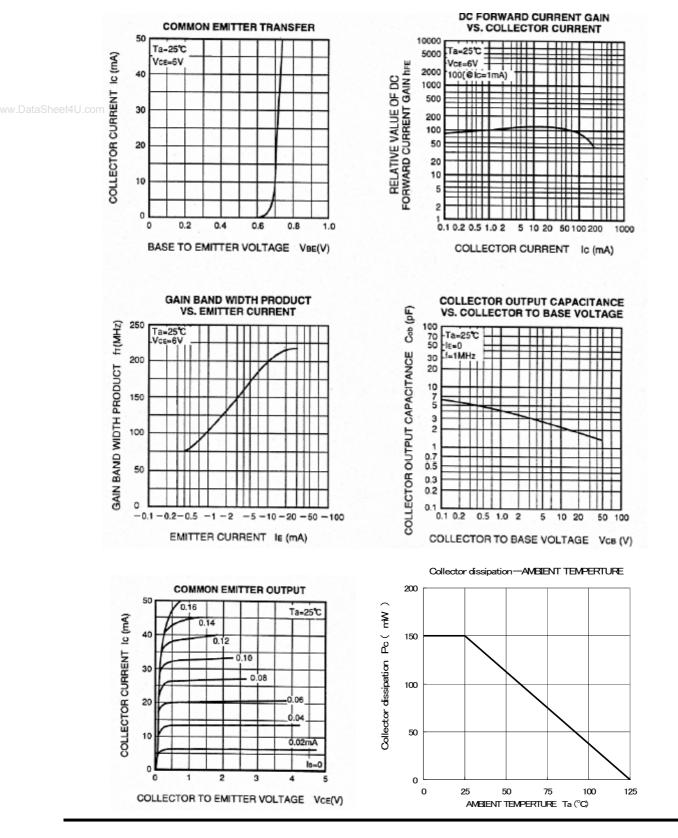
 $\,\,\%\,$ It shows hFE classification in below table.

Item	E	F	G	
hFE	150~300	250mm500 at	a \$490 et 890.c c	m

(Transistor)

ISC5804AT2

Low frequency Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION



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 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

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 be 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.