2SC5938

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE

DESCRIPTION

ISAHAYA 2SC5938 is a super mini package resin sealed silicon NPN epitaxial transistor for muting and switching. application

FEATURE

High Emitter to Base voltage VEBO=50V

High Reverse hFE

Low ON RESISTANCE. RON=1

Small packege for mounting

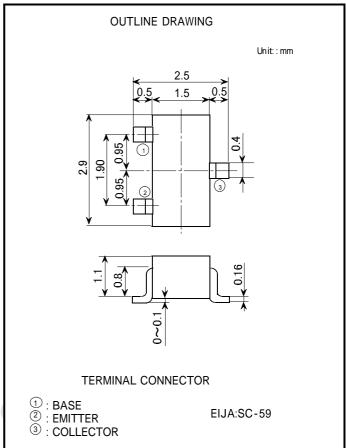
APPLICATION

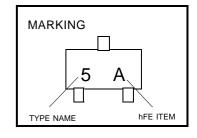
For muting, switching application

www.DataSh

MAXIMUM RATINGS (Ta=25

Symbol	Parameter	Ratings	Unit
Vсво	Collector to Base voltage	50	V
VCEO	Collector to Emitter voltage	12	V
VEBO	Emitter to Base voltage	50	V
Ιc	Collector current	200	mA
Pc	Collector dissipation	150	mW
Tj	Junction temperature	+125	
Tstg	Storage temprature	-55 ~ +125	





ELECTRICAL CHARACTERISTICS (Ta=25

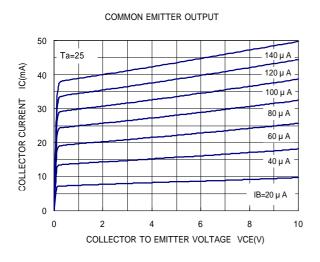
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	
I сво	Collector cut off current	VCB=50V, I E=0mA			0.1	μΑ
I EBO	Emitter cut off current	VEB=50V, IC=0mA			0.1	μΑ
hFE	DC forward current gain	VCE=2V, I C=4mA	200		1200	
VCE(sat)	C to E saturation voltage	I C=30mA, I B=3mA		30		mV
f⊤	Gain bandwidth product	VCE=6V, I C=4mA		30		MHz
Cob	Collector output capacitance	VCB=10V, I E=0mA, f=1MHz		5.0		pF

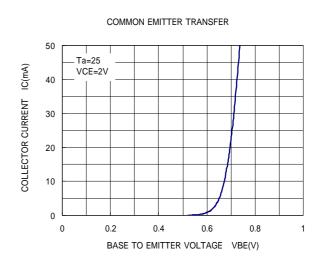
Item	А	В
hFE	200 to 700	350 to 1200
Marking	5A	5B

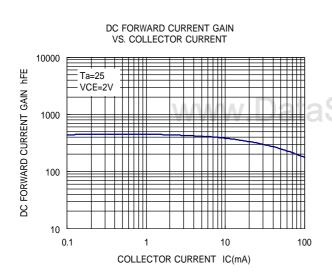
SMALL-SIGNAL TRANSISTOR

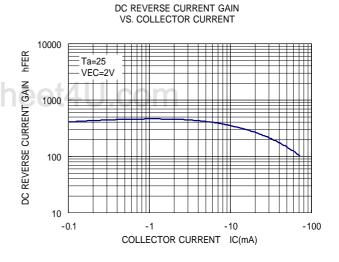
2SC5938

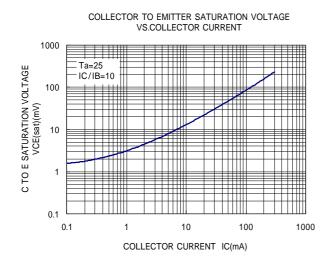
FOR LOW FREQUENCY AMPLIFY APPLICATION
SILICON NPN EPITAXIAL TYPE

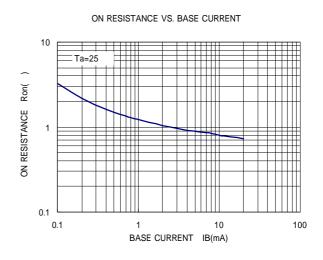








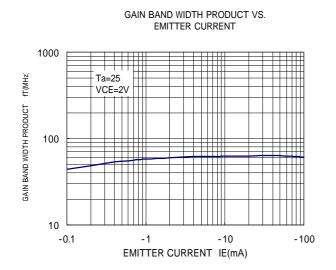


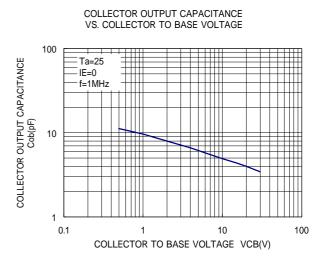


SMALL-SIGNAL TRANSISTOR

2SC5938

FOR LOW FREQUENCY AMPLIFY APPLICATION SILICON NPN EPITAXIAL TYPE





www.DataSheet4U.com

www.DataSheet4U.com



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 or third party.

 -ISAHAYA bectronics 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 because
- 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 prohibited.

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