2SC5395

For Low Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

DESCRIPTION

2SC5395 is a silicon NPN epitaxial type transistor. It is designed for low frequency voltage amplify application.

FEATURE

- Small collector to emitter saturation voltage.
 VcE(sat)=0.3V max (@ I c=100mA,I B=10mA)
- · Excellent linearity of DC foward current gain
- · Small package for easy mounting

APPLICATION

For small machine low frequency voltage amplify application.

MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNIT
Vсво	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	٧
VCEO	Collector to Emitter voltage	50	٧
l c	Collector current	200	mA
Pc	Collector dissipation (Ta=25°C)	450	mW
Tj	Junction temperature	+125	°C
Tstg	Storage temperature	-55to+125	c

TERMINAL CONNECTOR ①: EMITTER ②: COLLECTOR EIAJ:— ③: BASE JEDEC:—

ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TESTCONDITIONS	LIMITS] <u> </u>
			MIN	TYP	МАХ	UNIT
V(BR)CEO	C to E break down voltage	I c=100 μ A, RBE=∞	50			V
СВО	Collector cut off current	VcB=50V, I E=0			0.1	μΑ
I EBO	Emitter cut off current	VEB=6V, 1 C=0			0.1	μΑ
hFE *	DC forward current gain	VcE=6V, I c=1mA	150		800	
hFE	DC forward current gain	VcE=6V, 1 c=0.1mA	50			
VCE(sat)	C to E saturation voltage	I c=100mA, I B=10mA			0.3	V
fT	Gain band width product	VcE=6V, I E=-10mA		200		MHz
Сов	Collector output capacitance	VcB=6V, I E=0, f=1MHz		2.5		pF
NF	Noise figure	VCE=6V, I E=-0.1mA, $f=1kHz$,RG= $2k\Omega$			15	dB

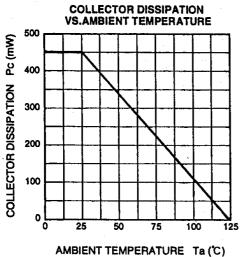
ITEM	E	F	G
hFE	150~300	250~500	400~800

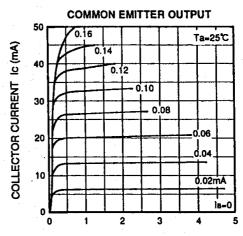
(Transistor)

2SC5395

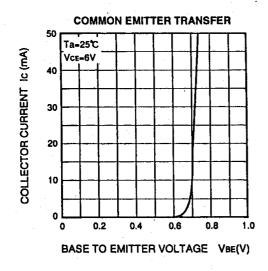
For Low Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

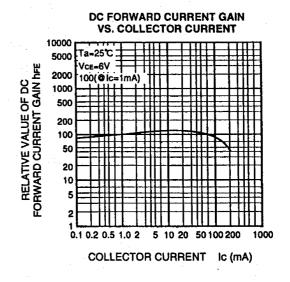
TYPICAL CHARACTERISTICS

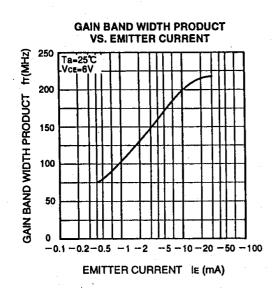


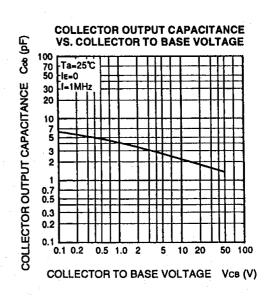


COLLECTOR TO EMITTER VOLTAGE VCE(V)





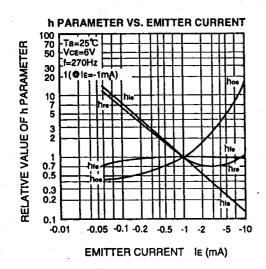


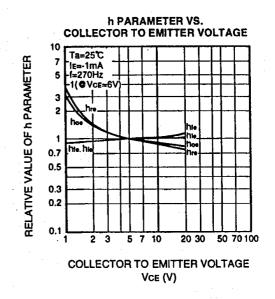


(Transistor)

2SC5395

For Low Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)





COMMON EMITTER h PARAMETER (TYPICAL VALUE)

Symbol	Parameter	Test conditions	Limits	Unit
hie	Closed loop small signal input impedance	Ta=25℃	8.5	kΩ
hre	Open loop small signal reverse voltage amplification factor	VcE=6V	0.1	×10-3
hie	Closed loop small signal forward current amplification factor	IE=-1mA	300	
hoe	Open loop small signal output admittance	f=270Hz	5.5	μS



http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

Keep safety 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 consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of non-flammable material or (iii) prevention against any malfunction or mishap.

Notes regarding these materials

•These materials are intended as reference to assist out customers in the selection of the Isahaya semiconductor product best suited to the customer's application, they do not convey any license under any intellectual property rights, or any other rights, belonging to Isahaya Electronics Corporation or a third party.

Isahaya Electronics Corporation assumes no responsibility for any damage, or infringement of any third-party rights, originating in the use of any product data, diagrams, charts or circuit application examples contained in the 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 authorized Isahaya Semiconductor product distributor for the latest product information before purchasing a product listed herein.

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 reexport contrary to the export control laws and regulations of Japan and/or the country of destination is prohibited.

Please contact Isahaya Electronics Corporation or an authorized Isahaya Semiconductor product distributor for further details on these materials or the products contained therein.