**(Transistor)** 

# 2SC5398

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

### DESCRIPTION

2SC5398 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=30mA,I B=1.5mA)
- · Excellent linearity of DC forward current gain
- · Small package for easy mounting

### **APPLICATION**

For small machine low frequency voltage amplify application.

### MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
Vсво	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	V
VCEO	Collector to Emitter voltage	50	V
l c	Collector current	100	mA
Pc	Collector dissipation (Ta=25℃)	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	TESTCONDITION		LIMIT		
			MIN	TYP	MAX	UNIT
V(BR)CEO	C to E break down voltage	I c=100 μA, RBE=∞	50	1		V
I сво	Collector cut off current	VcB=50V, I E=0			0.5	μΑ
I EBO	Emitter cut off current	VEB=4V, I C=0	-		0.5	μΑ
hFE *	DC forward current gain	VcE=6V, I c=1mA	120	<u> </u>	820	1 -
hFE	DC forward current gain	VcE=6V, I c=0.1mA	70			<b>—</b>
VCE(sat)	C to E saturation voltage	I c=30mA, I в=1.5mA			0.3	l v
fτ	Gain band width product	Vce=6V, I e=-10mA		200		MHz
Сов	Collector output capacitance	VcB=6V, I E=0, f=1MHz		2.0		pF

ITEM	Q	R	S	Т
hFE	120~270	180~390	270~560	390~820

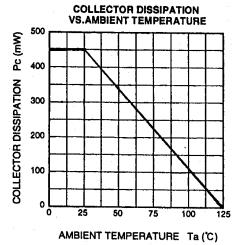
## ISAHAYA ELECTRONICS CORPORATION

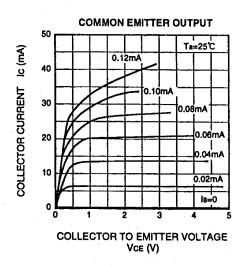
**(Transistor)** 

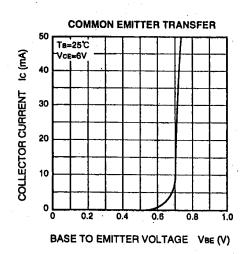
2SC5398

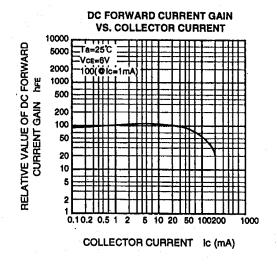
For Low Frequency Amplify Application Silicon NPN Epitaxial Type Micro(Frame type)

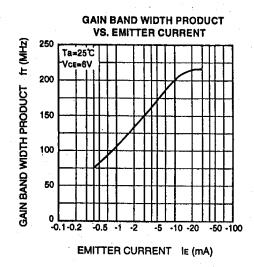
### TYPICAL CHARACTERISTICS

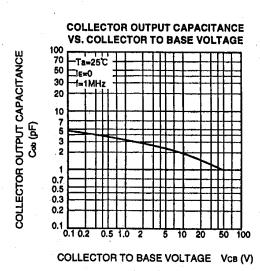














http://www.idc-com.co.jp 6-41, TSUKUBA, ISAHAYA, NAGASAKI, 854-0065, JAPAN

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.