

(Transistor)
2SC5477

For High Frequency Amplify Application
Silicon NPN Epitaxial Type (Mini type)

DESCRIPTION

2SC5477 is a super mini package resin sealed silicon NPN epitaxial type transistor. It is designed for high frequency amplify application.

FEATURE

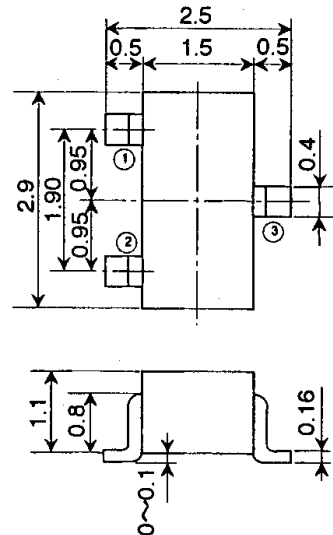
- Super mini package for easy mounting
- High gain band width product

APPLICATION

Small type machine high frequency amplify application

OUTLINE DRAWING

Unit:mm



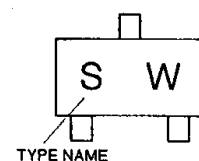
TERMINAL CONNECTOR

- ① : BASE
② : EMITTER
③ : COLLECTOR
- EIAJ : SC-59
JEDEC : TO-236 resemblance

MAXIMUM RATINGS (Ta=25°C)

SYMBOL	PARAMETER	RATINGS	UNIT
V _{CB0}	Collector to Base voltage	30	V
V _{EB0}	Emitter to Base voltage	4	V
V _{CE0}	Collector to Emitter voltage	20	V
I _c	Collector current	50	mA
P _c	Collector dissipation(Ta=25°C)	150	mW
T _j	Junction temperature	+150	°C
T _{stg}	Storage temperature	-55to+150	°C

MARKING



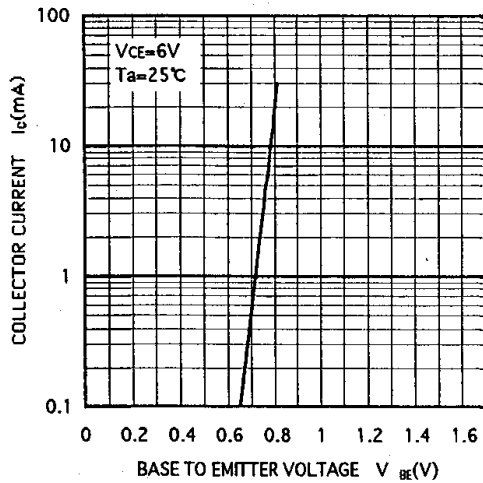
ELECTRICAL CHARACTERISTICS (Ta=25°C)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
V(BR)CBO	C to B break down voltage	I _c =50 μA, I _E =0mA	30			V
V(BR)CEO	C to E break down voltage	I _c =100 μA, R _{BE} =∞	20			V
V(BR)EBO	E to B break down voltage	I _c =50 μA, I _c =0mA	4			V
I _{CBO}	Collector cut off current	V _{CB} =20V, I _E =0			0.5	μA
I _{EBO}	Emitter cut off current	V _{EB} =3V, I _c =0			0.5	μA
h _{FE}	DC forward current gain	V _{CE} =10V, I _c =5mA	50	148		—
V _{CE(sat)}	C to E Saturation voltage	I _c =10mA, I _B =1mA		0.1	0.3	V
f _T	Gain band width product	V _{CE} =5V, I _E =-10mA	600	1100		MHz
C _{ob}	Collector output capacitance	V _{CB} =6V, I _E =0, f=1MHz		1.2	1.5	pF

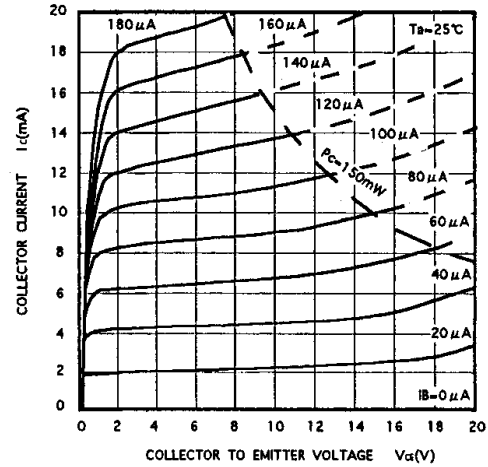
<Transistor>
2SC5477

For High Frequency Amplify Application
 Silicon NPN Epitaxial Type (Mini type)

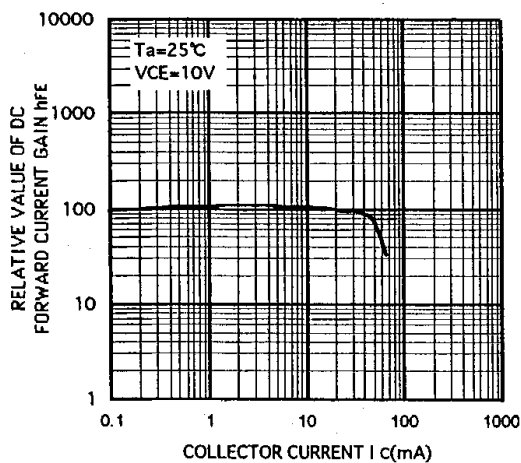
COMMON EMITTER TRANSFER



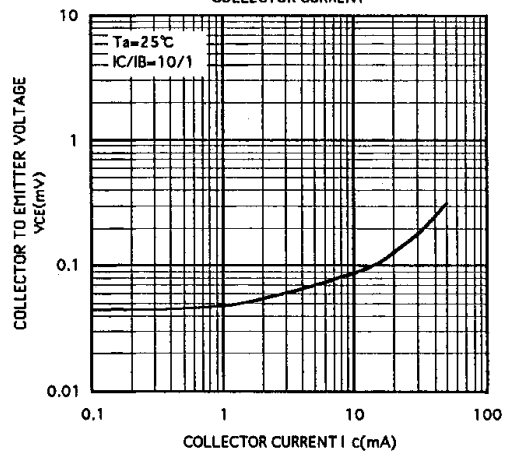
COMMON EMITTER OUTPUT



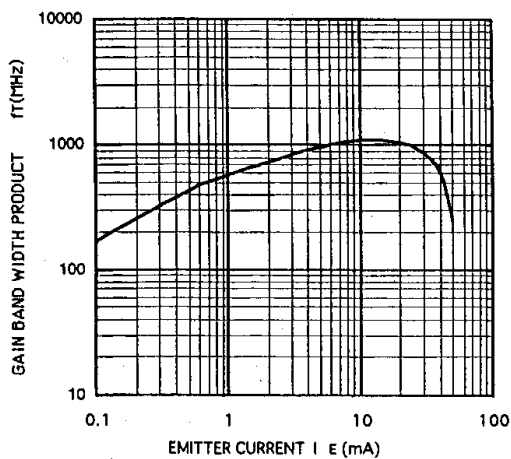
DC FORWARD CURRENT GAIN
 VS. COLLECTOR CURRENT



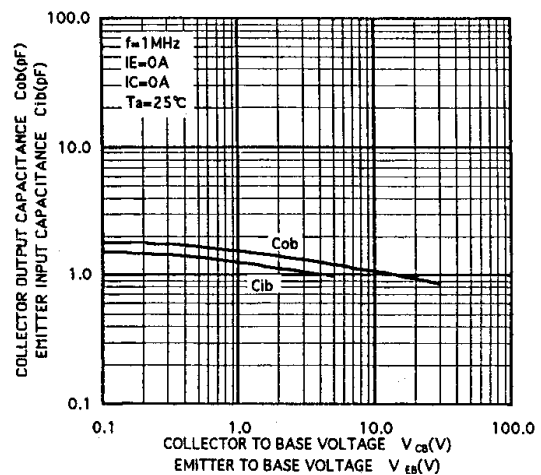
COLLECTOR TO EMITTER
 SATURATION VOLTAGE VS.
 COLLECTOR CURRENT



GAIN BAND WIDTH PRODUCT
 VS. EMITTER CURRENT

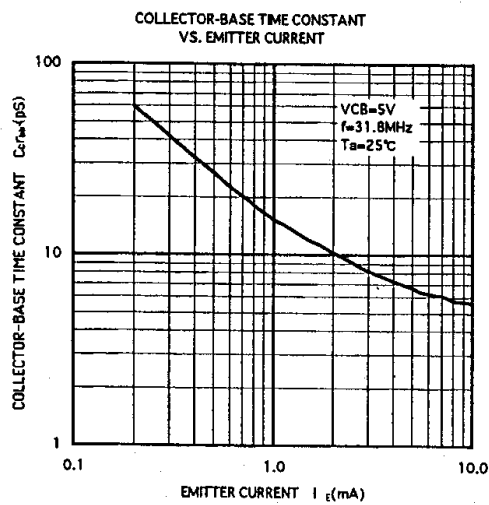


INPUT, OUTPUT CAPACITANCE
 VS. BASE VOLTAGE



Transistor
2SC5477

For High Frequency Amplify Application
Silicon NPN Epitaxial Type (Mini type)





<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.
-