

# 2SC5626

FOR HIGH FREQUENCY AMPLIFY APPLICATION  
SILICON NPN EPITAXIAL TYPE

## DESCRIPTION

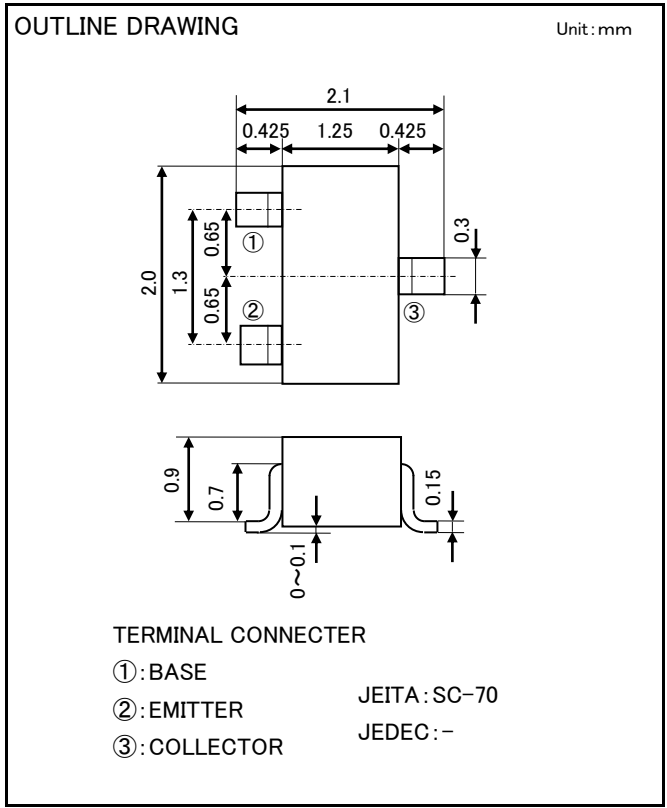
2SC5626 is a super mini package resin sealed silicon NPN epitaxial type transistor. It is designed for high frequency amplify application.

## FEATURE

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

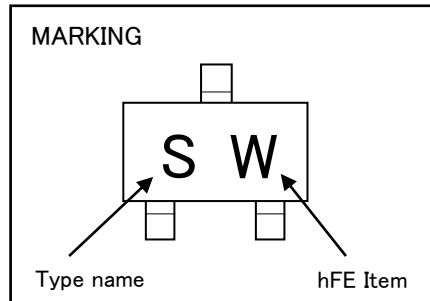
## APPLICATION

Small type machine high frequency amplify application



## MAXIMUM RATINGS (Ta=25°C)

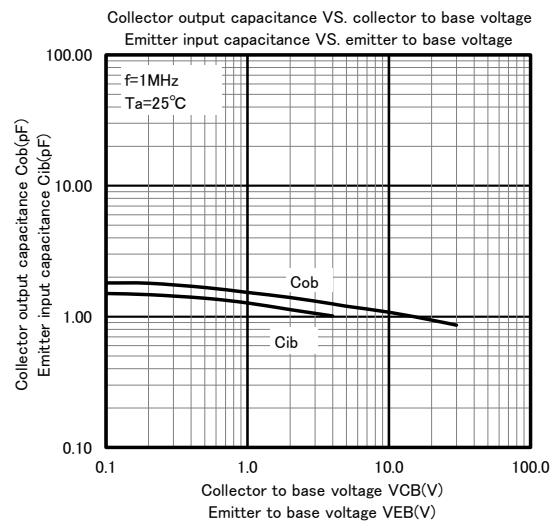
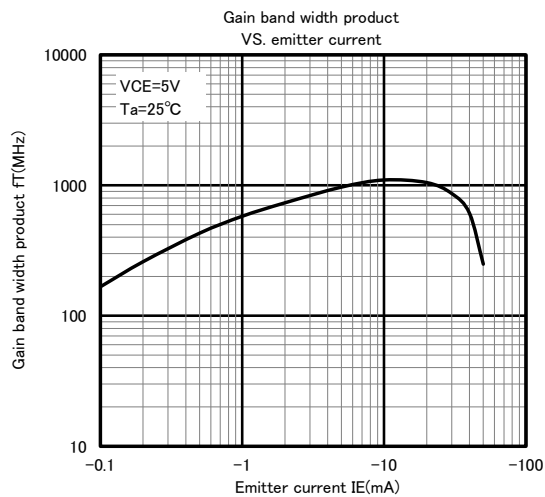
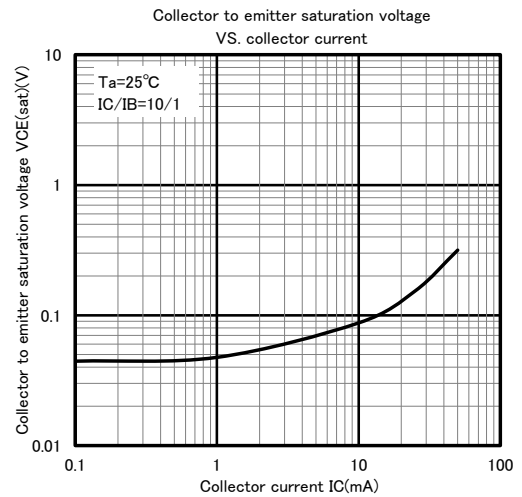
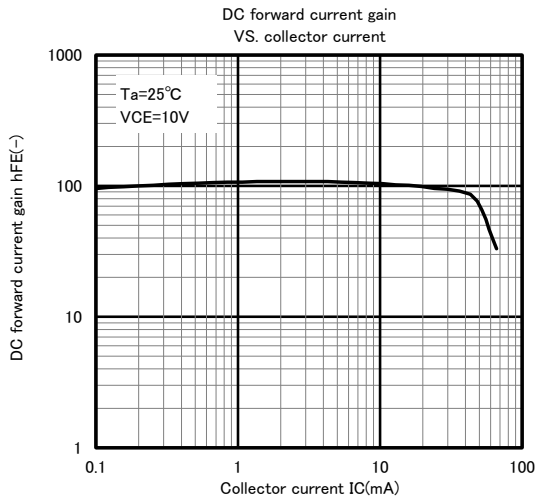
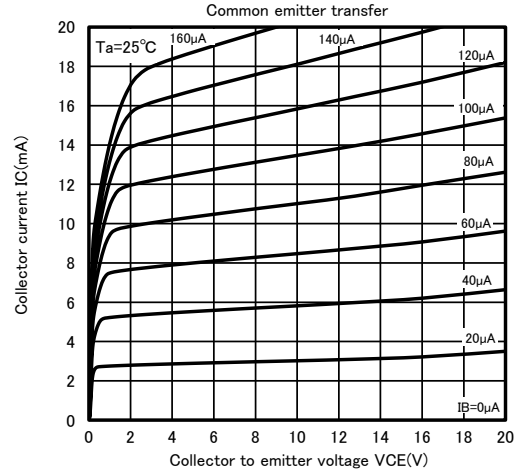
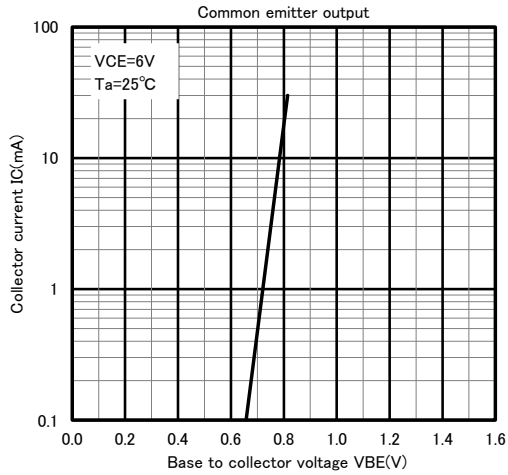
Parameter	Symbol	Ratings	Unit
Collector to Base voltage	V <sub>CB0</sub>	30	V
Emitter to Base voltage	V <sub>EB0</sub>	4	V
Collector to Emitter voltage	V <sub>CE0</sub>	20	V
Collector current	I <sub>c</sub>	50	mA
Collector dissipation	P <sub>c</sub>	125	mW
Junction temperature	T <sub>j</sub>	+150	°C
Storage temperature	T <sub>stg</sub>	-55~+150	°C



## ELECTRICAL CHARACTERISTICS (Ta=25°C)

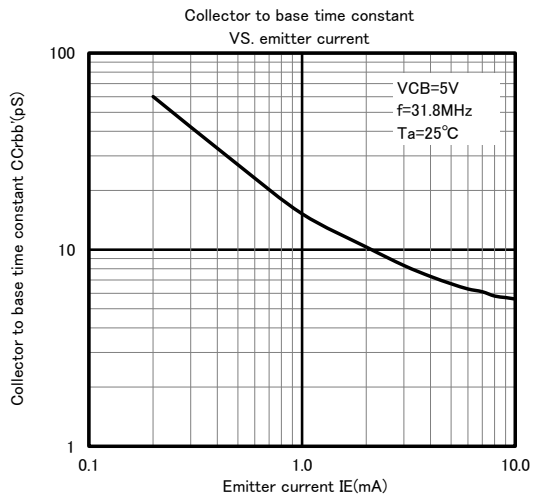
Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B breakdown voltage	V <sub>(BR)CBO</sub>	I <sub>c</sub> =50 μA, I <sub>E</sub> =0	30	-	-	V
E to B breakdown voltage	V <sub>(BR)EBO</sub>	I <sub>E</sub> =50 μA, I <sub>c</sub> =0	4	-	-	V
C to E breakdown voltage	V <sub>(BR)CEO</sub>	I <sub>c</sub> =1mA, R <sub>BE</sub> =∞	20	-	-	V
Collector cut off current	I <sub>CB0</sub>	V <sub>CB</sub> =20V, I <sub>E</sub> =0	-	-	0.5	μA
Emitter cut off current	I <sub>EB0</sub>	V <sub>EB</sub> =3V, I <sub>c</sub> =0	-	-	0.5	μA
DC forward current gain	h <sub>FE</sub>	V <sub>CE</sub> =10V, I <sub>c</sub> =5mA	50	148	-	-
C to E saturation voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> =10mA, I <sub>B</sub> =1mA	-	0.1	0.3	V
Gain bandwidth product	f <sub>T</sub>	V <sub>CE</sub> =5V, I <sub>E</sub> =-10mA	600	1100	-	MHz
Collector output capacitance	C <sub>ob</sub>	V <sub>CB</sub> =6V, I <sub>E</sub> =0, f=1MHz	-	1.2	1.5	pF

TYPICAL CHARACTERISTICS



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