〈SMALL-SIGNAL TRANSISTOR〉

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

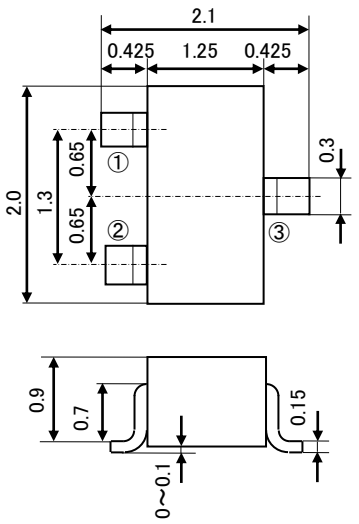
- Super mini package for easy mounting.
- High gain band width product

APPLICATION

Small type machine high frequency amplify application

OUTLINE DRAWING

Unit:mm



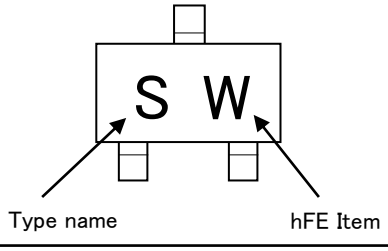
TERMINAL CONNECTER
①:BASE
②:EMITTER
③:COLLECTOR

JEITA:SC-70
JEDEC:-

MAXIMUM RATINGS(Ta=25℃)

Parameter	Symbol	Ratings	Unit
Collector to Base voltage	V_{CBO}	30	V
Emitter to Base voltage	V_{EBO}	4	V
Collector to Emitter voltage	V_{CEO}	20	V
Collector current	Ic	50	mA
Collector dissipation	Pc	125	mW
Junction temperature	T_j	+150	℃
Storage temperature	T_{stg}	−55～+150	℃

MARKING



ELECTRICAL CHARACTERISTICS(Ta=25℃)

Parameter	Symbol	Test conditions	Limits			Unit
			Min	Typ	Max	
C to B breakdown voltage	$V_{(BR)CBO}$	I_C=50μA, I_E=0	30	−	−	V
E to B breakdown voltage	$V_{(BR)EBO}$	I_E=50μA, I_C=0	4	−	−	V
C to E breakdown voltage	$V_{(BR)CEO}$	I_C=1mA, R_{BE}=∞	20	−	−	V
Collector cut off current	I_{CBO}	V_{CB}=20V, I_E=0	−	−	0.5	μA
Emitter cut off current	I_{EBO}	V_{EB}=3V, I_C=0	−	−	0.5	μA
DC forward current gain	h_{FE}	V_{CE}=10V, I_C=5mA	50	148	−	−
C to E saturation voltage	$V_{CE(sat)}$	I_C=10mA, I_B=1mA	−	0.1	−	V
Gain bandwidth product	f_T	V_{CE}=5V, I_E=−10mA	600	1100	−	MHz
Collector output capacitance	Cob	V_{CB}=6V, I_E=0, f=1MHz	−	1.2	1.5	pF

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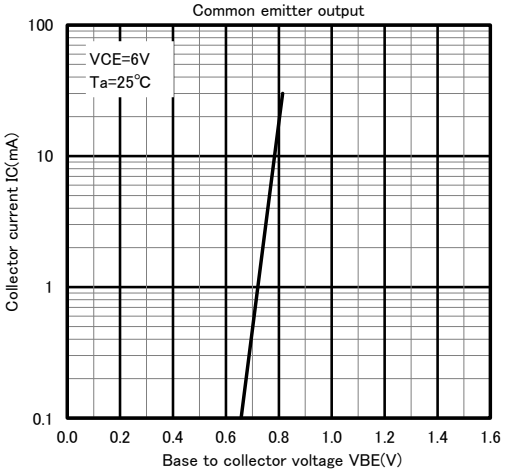
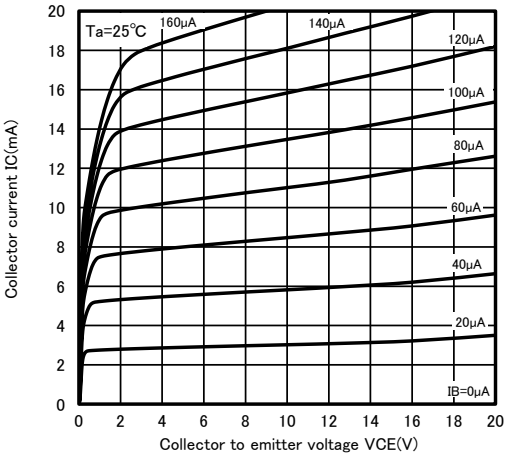
TYPICAL CHARACTERISTICS

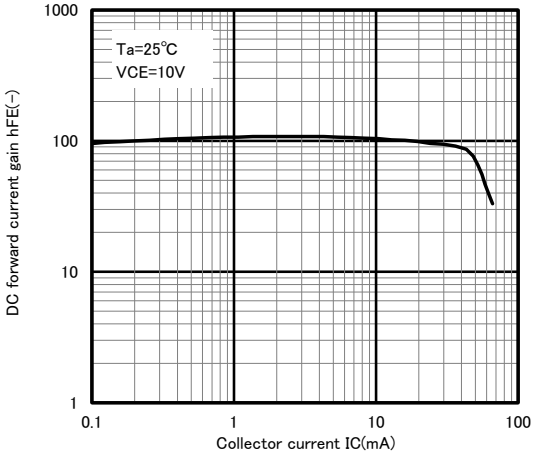
Common emitter output



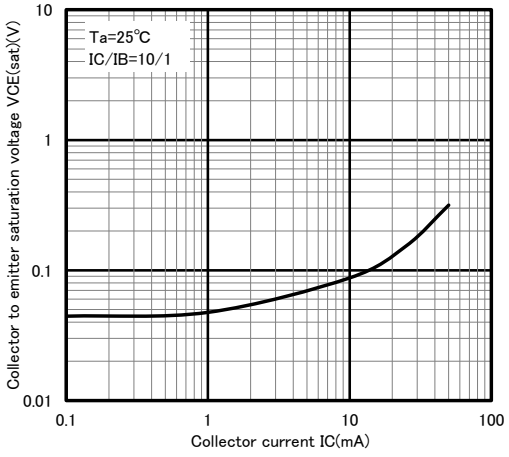
Common emitter transfer



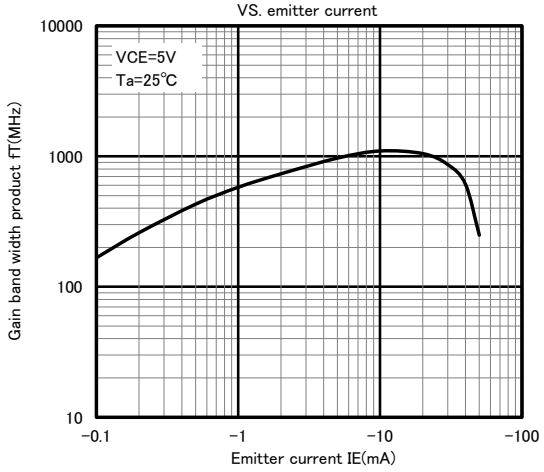
DC forward current gain
VS. collector current



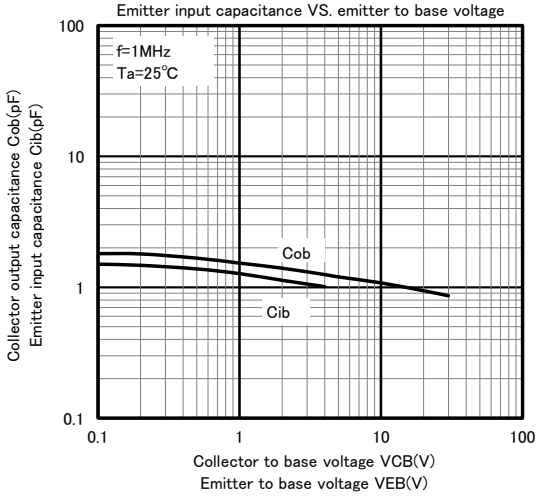
Collector to emitter saturation voltage
VS. collector current



Gain band width product
VS. emitter current



Collector output capacitance VS. collector to base voltage
Emitter input capacitance VS. emitter to base voltage



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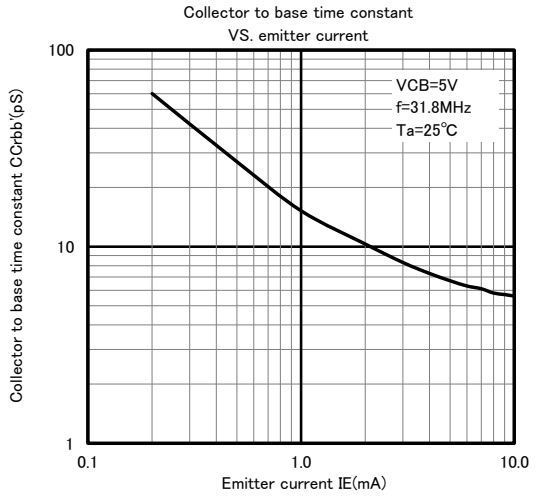

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