〈Transistor〉

2SC5626

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

DESCURIPTION

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

FEATURE

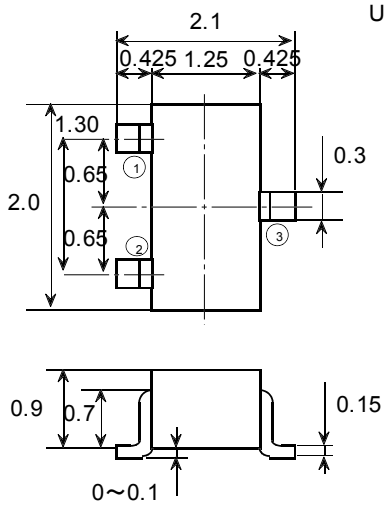
- Super mini package for easy mounting
- High gain band width product

APPLICATION

Small type machine high frequency amplify application

OUTLINE DRAWING

Unit:mm



TERMINAL CONNECTOR

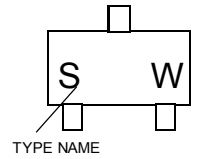
① : BASE
② : EMITTER
③ : COLLECTOR

JEITA : SC-70
JEDEC : －

MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	RATINGS	UNIT
V_{CBO}	Collector to Base voltage	30	V
V_{EBO}	Emitter to Base voltage	4	V
V_{CEO}	Collector to Emitter voltage	20	V
I_C	Collector current	50	mA
P_C	Collector dissipation(Ta=25℃)	150	mW
T_j	Junction temperature	+150	℃
T_{stg}	Storage temprature	-55to+150	℃

MARKING



ELECTRICAL CHARACTERISTICS (Ta=25℃)

SYMBOL	PARAMETER	TEST CONDITIONS	LIMITS			UNIT
			MIN	TYP	MAX	
$V_{(BR)CBO}$	C to B break down voltage	I_C=50μA, I_E=0mA	30			V
$V_{(BR)CEO}$	C to E break down voltage	I_C=100μA, R_{BE}=∞	20			V
$V_{(BR)EBO}$	E to B break down voltage	I_C=50μA, I_C=0mA	4			V
I_{CBO}	Collector cut cff 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

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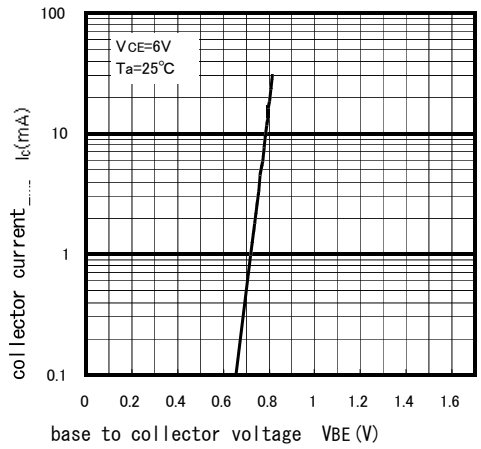
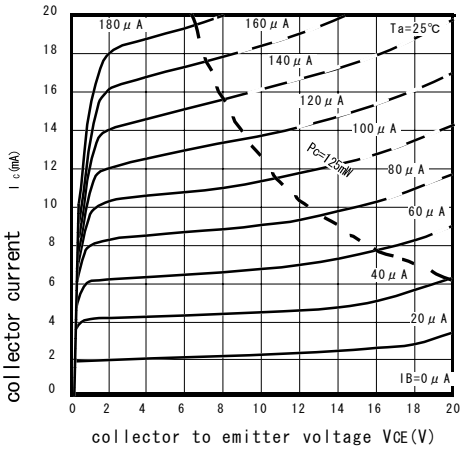
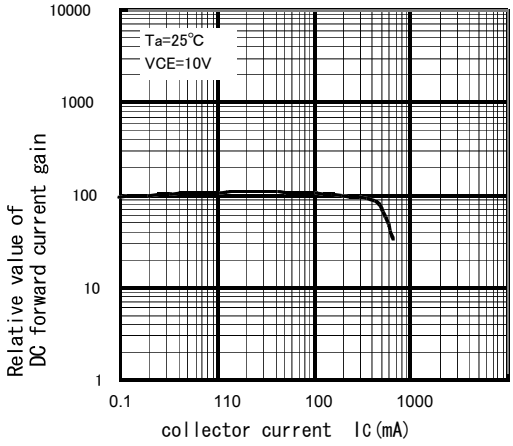
Common emitter output



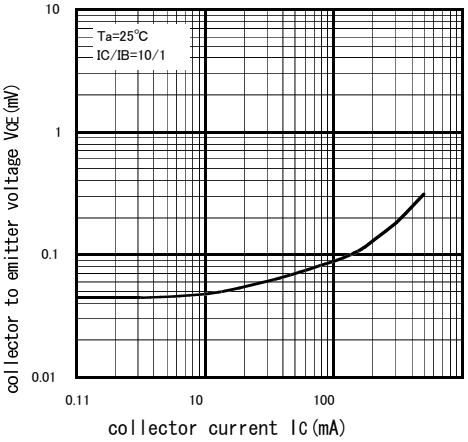
Common emitter transfer



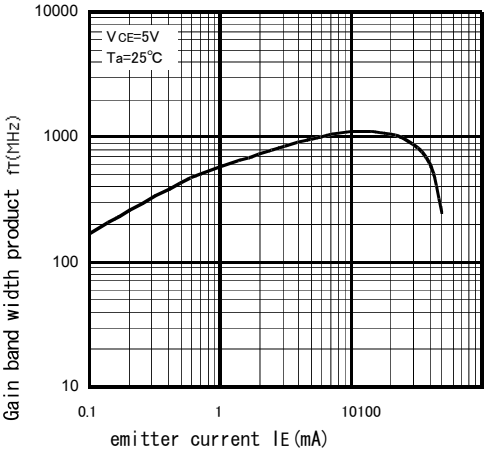
DC forward current gain VS. collector current



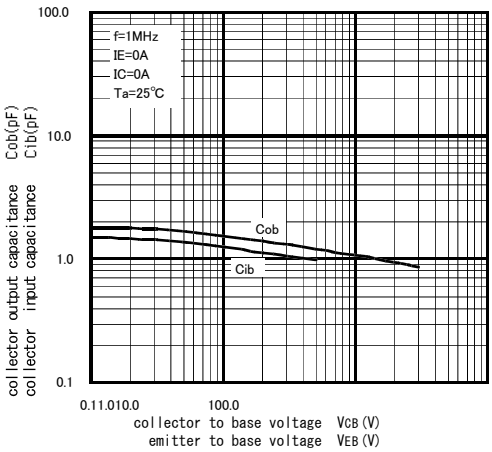
collector to emitter voltage VS. collector current



Gain band width product VS. Emitter current



collector output/input capacitance VS. Collector to Base Voltage



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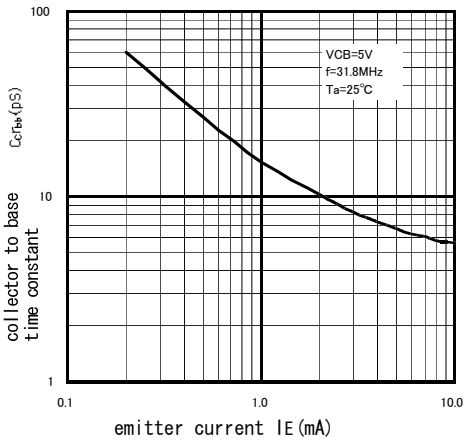
Collector to base time constant VS. Emitter current



ISAHAYA ELECTRONICS CORPORATION

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