

# 2SC4626J

## Silicon NPN epitaxial planar type

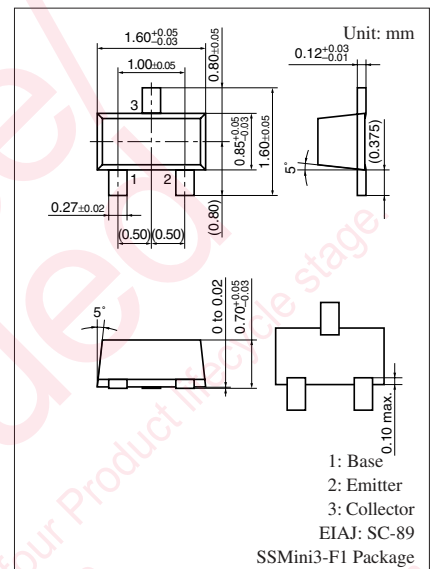
For high-frequency amplification

### ■ Features

- Optimum for RF amplification of FM/AM radios
- High transition frequency  $f_T$
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	$V_{CBO}$	30	V
Collector-emitter voltage (Base open)	$V_{CEO}$	20	V
Emitter-base voltage (Collector open)	$V_{EBO}$	5	V
Collector current	$I_C$	30	mA
Collector power dissipation	$P_C$	125	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$



Marking Symbol: V

### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

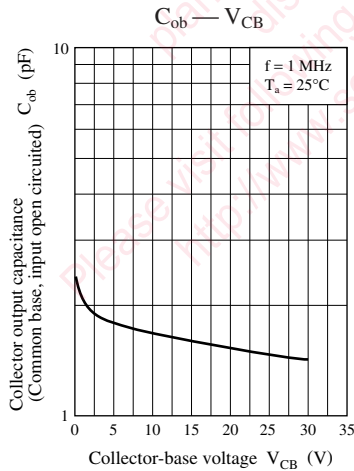
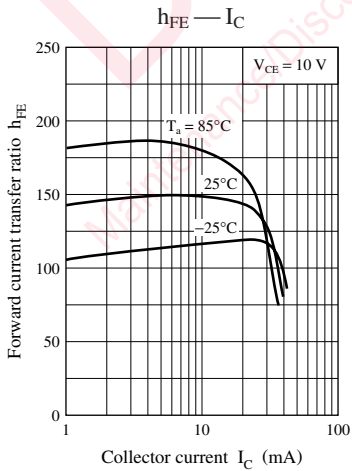
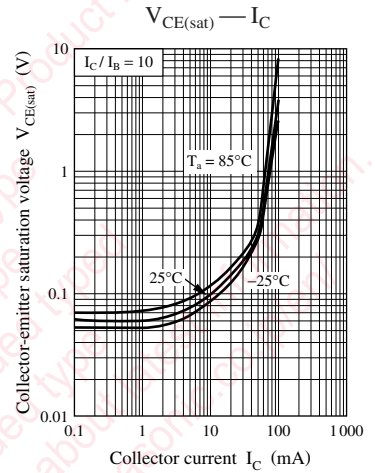
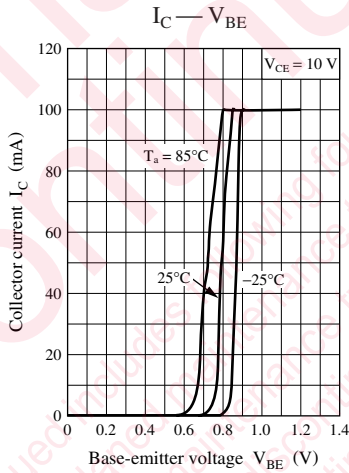
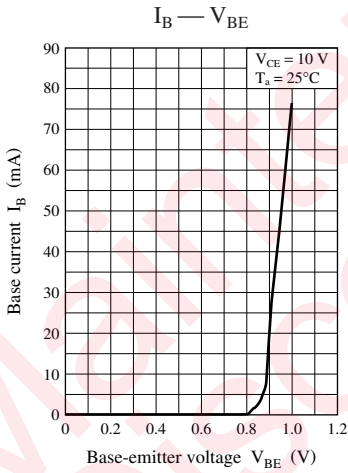
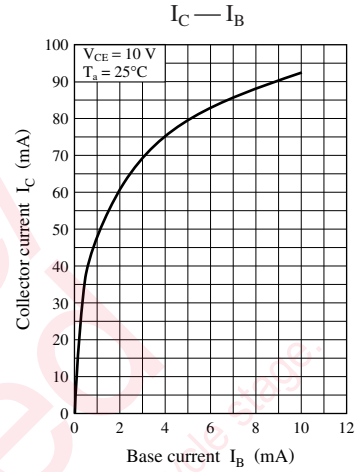
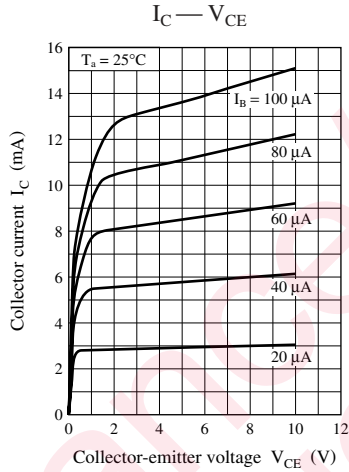
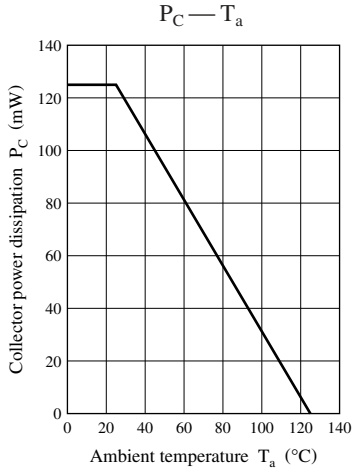
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base cutoff current (Emitter open)	$I_{CBO}$	$V_{CB} = 10\text{ V}, I_E = 0$			0.1	$\mu\text{A}$
Forward current transfer ratio *	$h_{FE}$	$V_{CB} = 10\text{ V}, I_E = -1\text{ mA}$	70		220	—
Transition frequency	$f_T$	$V_{CB} = 10\text{ V}, I_E = -1\text{ mA}, f = 200\text{ MHz}$	150	250		MHz
Noise figure	NF	$V_{CB} = 10\text{ V}, I_E = -1\text{ mA}, f = 5\text{ MHz}$		2.8	4.0	dB
Reverse transfer impedance	$Z_{rb}$	$V_{CB} = 10\text{ V}, I_E = -1\text{ mA}, f = 2\text{ MHz}$		22	50	$\Omega$
Common-emitter reverse transfer capacitance	$C_{re}$	$V_{CB} = 10\text{ V}, I_E = -1\text{ mA}, f = 10.7\text{ MHz}$		0.9	1.5	pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. \*: Rank classification

Rank	B	C	No-rank
$h_{FE}$	70 to 140	110 to 220	70 to 220

Product of no-rank is not classified and have no indication for rank.



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