# 2SC4626

### Silicon NPN epitaxial planar type

For high-frequency amplification Complementary to 2SA1790

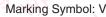
### Features

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

# Unit: mm

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

Symbol	Rating	Unit	
V <sub>CBO</sub>	30	V	
V <sub>CEO</sub>	20	v	
V <sub>EBO</sub>	5	V	
I <sub>C</sub>	30	mA	
P <sub>C</sub>	125	mW	
Tj	125	°C	
T <sub>stg</sub>	-55 to +125	°C	
	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>C</sub> T <sub>j</sub>	$\begin{array}{c c} V_{CBO} & 30 \\ \hline V_{CEO} & 20 \\ \hline V_{EBO} & 5 \\ \hline I_C & 30 \\ \hline P_C & 125 \\ \hline T_j & 125 \\ \hline \end{array}$	

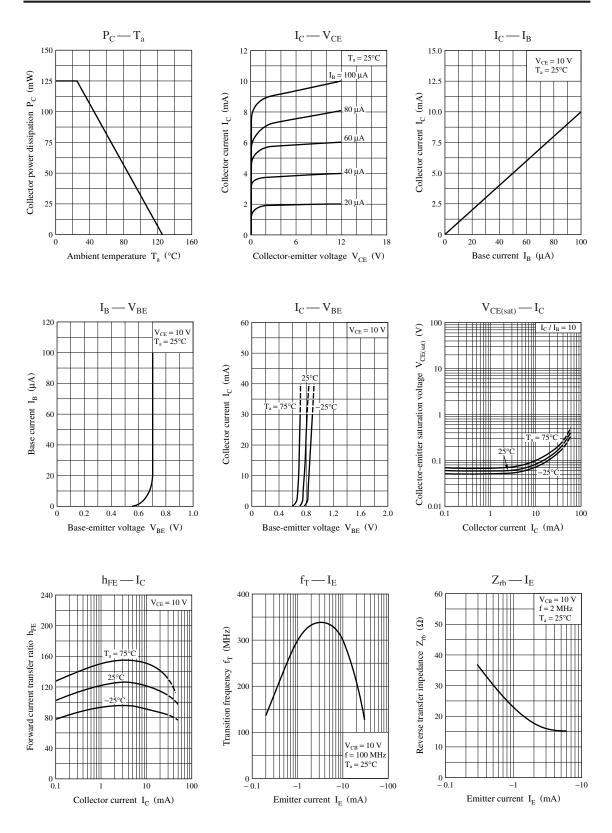


### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

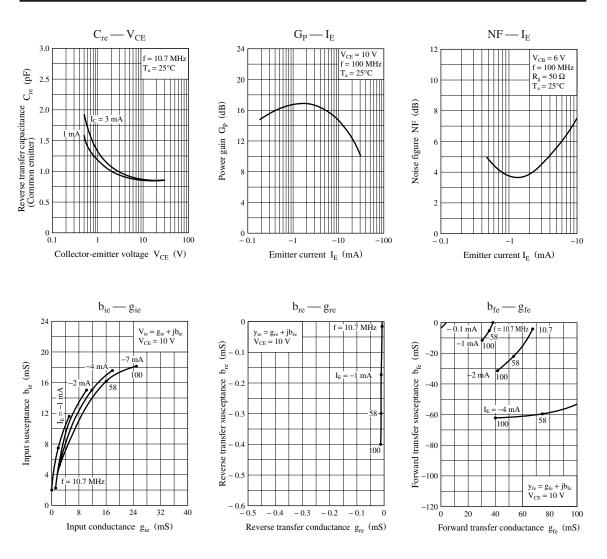
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base cutoff current (Emitter open)	I <sub>CBO</sub>	$V_{CB} = 10 \text{ V}, I_E = 0$	2		0.1	μΑ
Forward current transfer ratio *	h <sub>FE</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}$	70		220	_
Transition frequency	f <sub>T</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$	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 <sub>rb</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 2 \text{ MHz}$		22	50	Ω
Reverse transfer capacitance	C <sub>re</sub>	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$		0.9	1.5	pF
(Common emitter)		. <u>%</u> , <u>%</u> ,				

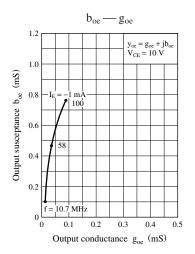
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. \*: Rank classification

<u>NS</u>	Rank	В	c S
	$h_{\rm FE}$	70 to 140	110 to 220



## Panasonic





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