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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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# 2SC4655J

## Silicon NPN epitaxial planar type

For high-frequency amplification

### ■ Features

- Optimum for RF amplification, oscillation, mixing, and IF of FM/SAM radios
- 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)	$V_{\text{CBO}}$	30	V
Collector-emitter voltage (Base open)	$V_{\text{CEO}}$	20	V
Emitter-base voltage (Collector open)	$V_{\text{EBO}}$	5	V
Collector current	$I_{\text{C}}$	30	mA
Collector power dissipation	$P_{\text{C}}$	125	mW
Junction temperature	$T_{\text{j}}$	125	$^\circ\text{C}$
Storage temperature	$T_{\text{stg}}$	-55 to +125	$^\circ\text{C}$

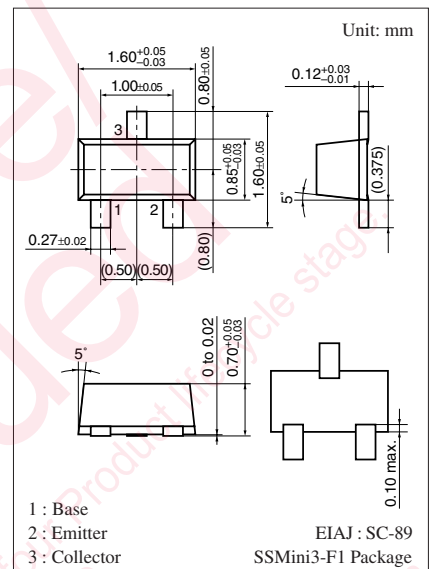
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	$V_{\text{CBO}}$	$I_{\text{C}} = 10 \mu\text{A}, I_{\text{E}} = 0$	30			V
Collector-emitter voltage (Base open)	$V_{\text{CEO}}$	$I_{\text{C}} = 2 \text{ mA}, I_{\text{B}} = 0$	20			V
Emitter-base voltage (Collector open)	$V_{\text{EBO}}$	$I_{\text{E}} = 10 \mu\text{A}, I_{\text{C}} = 0$	5			V
Forward current transfer ratio *	$h_{\text{FE}}$	$V_{\text{CE}} = 10 \text{ V}, I_{\text{C}} = 1 \text{ mA}$	70		250	—
Transition frequency	$f_{\text{T}}$	$V_{\text{CB}} = 10 \text{ V}, I_{\text{E}} = -1 \text{ mA}, f = 200 \text{ MHz}$	150	230		MHz
Reverse transfer capacitance (Common emitter)	$C_{\text{re}}$	$V_{\text{CB}} = 10 \text{ V}, I_{\text{E}} = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.3		pF

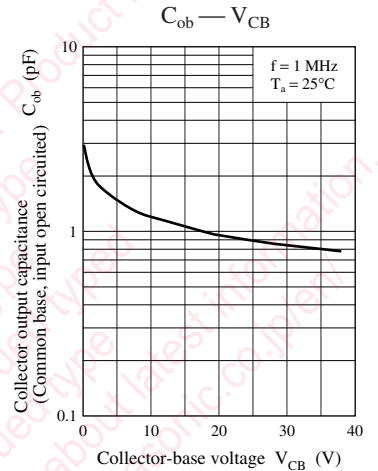
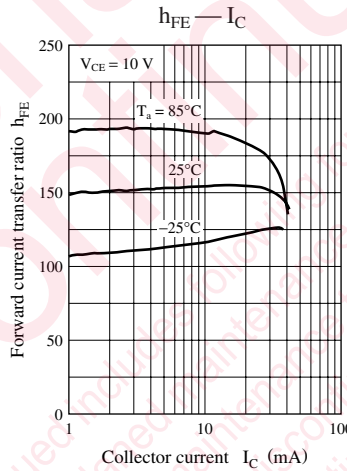
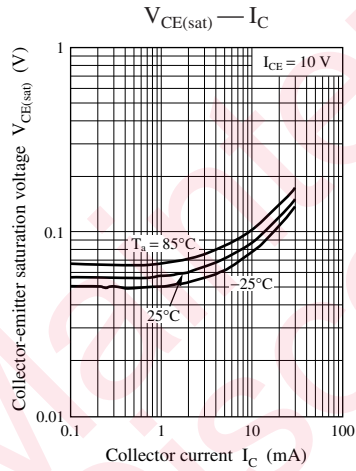
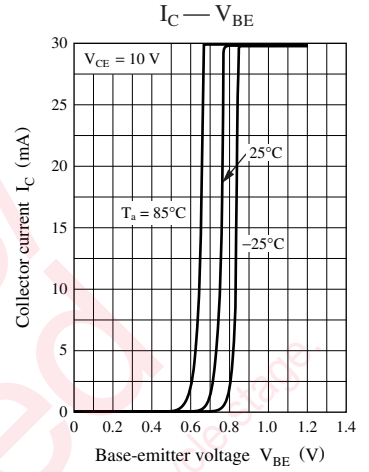
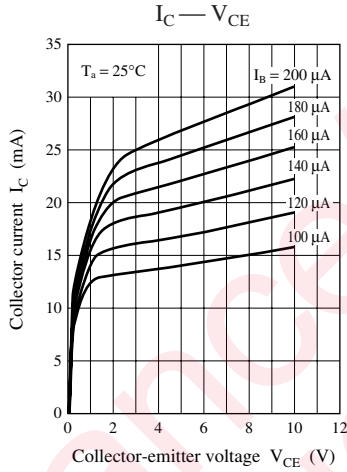
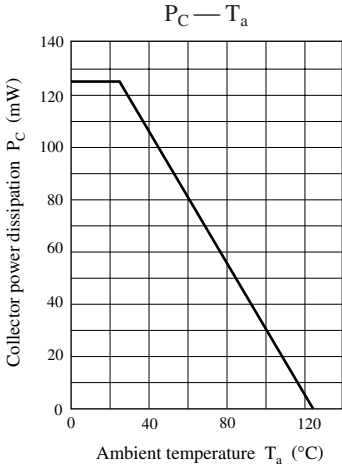
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. \*: Rank classification

Rank	B	C
$h_{\text{FE}}$	70 to 160	110 to 250



Marking Symbol: K



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