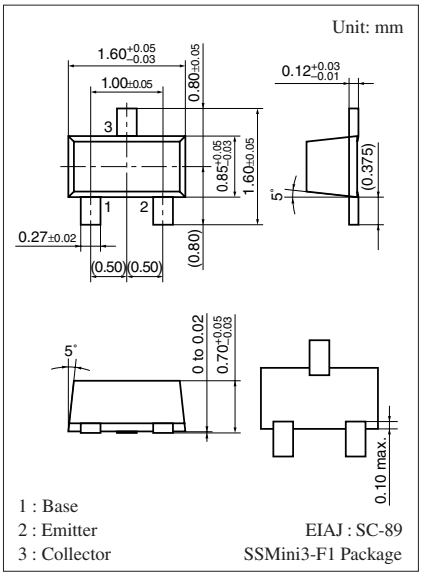
2SC4655J

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



Marking Symbol: K

■ Absolute Maximum Ratings $T_a = 25°C$

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	°C
Storage temperature	T_{stg}	−55 to +125	°C

■ Electrical Characteristics $T_a = 25°C \pm 3°C$

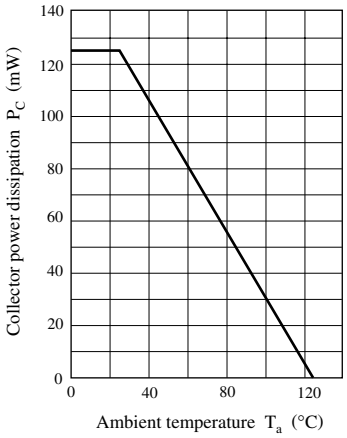
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	I_C = 10 µA, I_E = 0	30			V
Collector-emitter voltage (Base open)	V_{CEO}	I_C = 2 mA, I_B = 0	20			V
Emitter-base voltage (Collector open)	V_{EBO}	I_E = 10 µA, I_C = 0	5			V
Forward current transfer ratio *	h_{FE}	V_{CE} = 10 V, I_C = 1 mA	70		250	—
Transition frequency	f_T	V_{CB} = 10 V, I_E = −1 mA, f = 200 MHz	150	230		MHz
Reverse transfer capacitance (Common emitter)	C_{re}	V_{CB} = 10 V, I_E = −1 mA, f = 10.7 MHz		1.3		pF

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

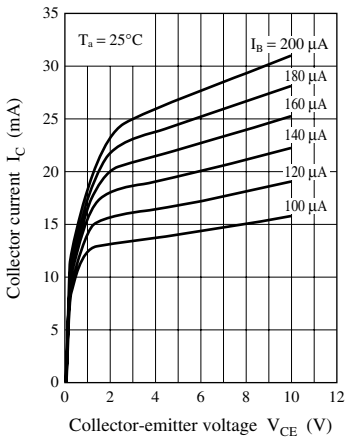
2. *: Rank classification

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

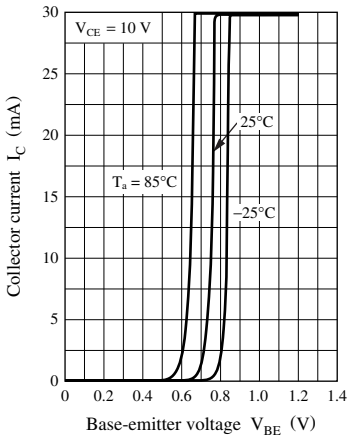
P_C — T_a



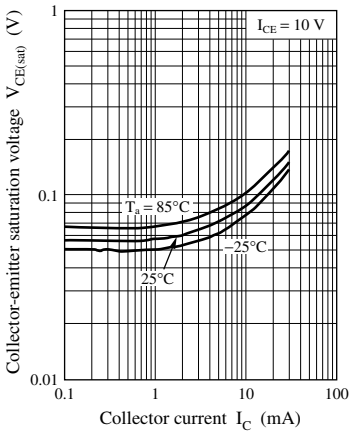
I_C — V_{CE}



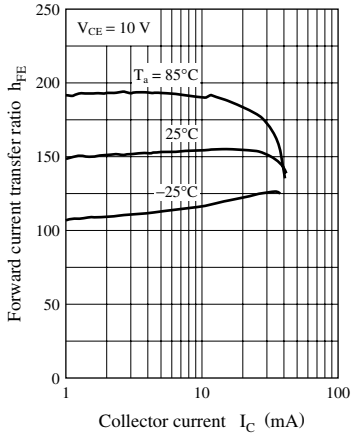
I_C — V_{BE}



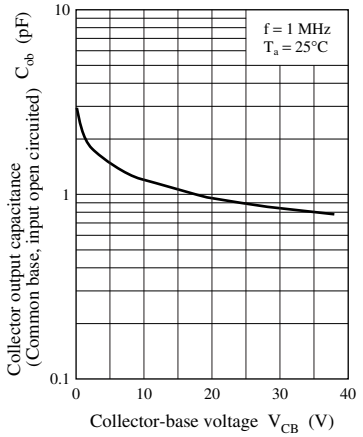
$V_{CE(sat)}$ — I_C



h_{FE} — I_C



C_{ob} — V_{CB}



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