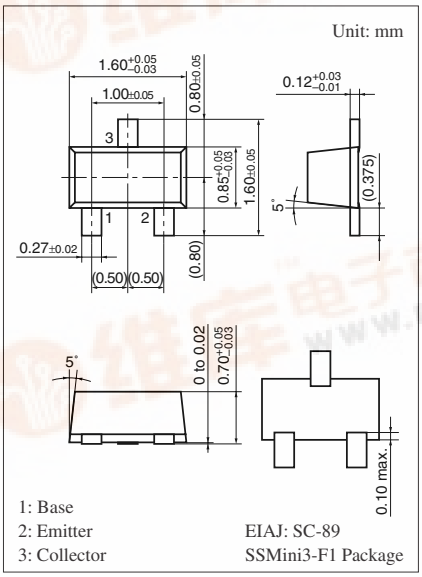
2SC4626J

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



Marking Symbol: V

■ Absolute Maximum Ratings $T_a = 25°C$

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	30	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	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

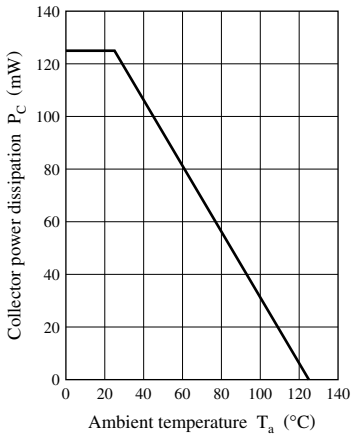
■ Electrical Characteristics $T_a = 25°C \pm 3°C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	V_{CB} = 10 V, I_E = 0			0.1	μA
DC current gain *	h_{FE}	V_{CB} = 10 V, I_E = −1 mA	70		220	
Gain bandwidth product	f_T	V_{CB} = 10 V, I_E = −1 mA, f = 200 MHz	150	250		MHz
Reverse transfer impedance	Z_{rb}	V_{CB} = 10 V, I_E = −1 mA, f = 2 MHz		22	50	Ω
Common emitter reverse transfer capacitance	C_{re}	V_{CB} = 10 V, I_E = −1 mA, f = 10.7 MHz		0.9	1.5	pF
Noise figure	NF	V_{CB} = 10 V, I_E = −1 mA, f = 5 MHz		2.8	4.0	dB

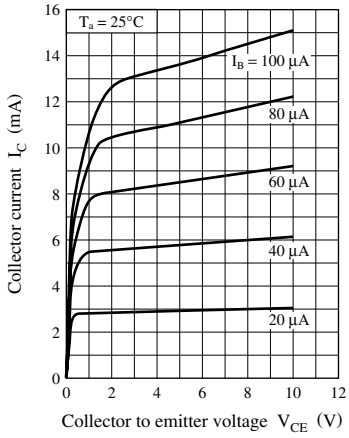
Note) *: h_{FE} rank classification

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

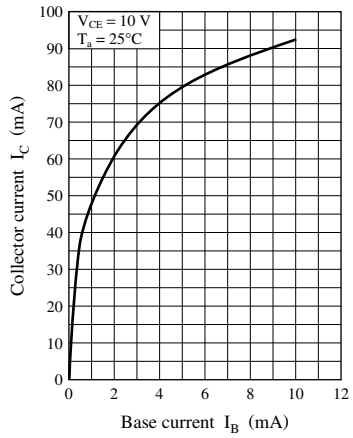
P_C — T_a



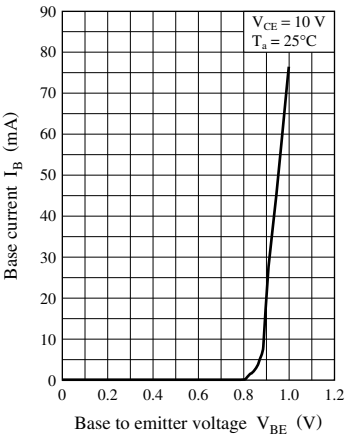
I_C — V_{CE}



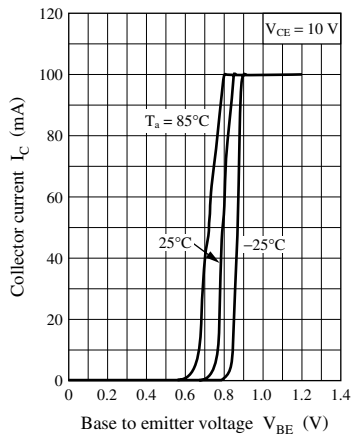
I_C — I_B



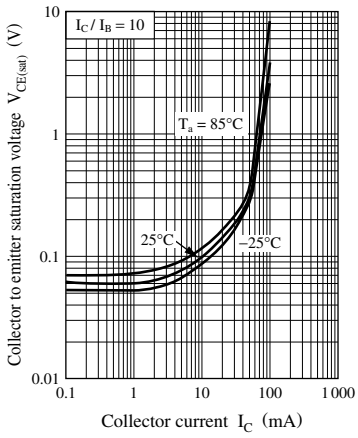
I_B — V_{BE}



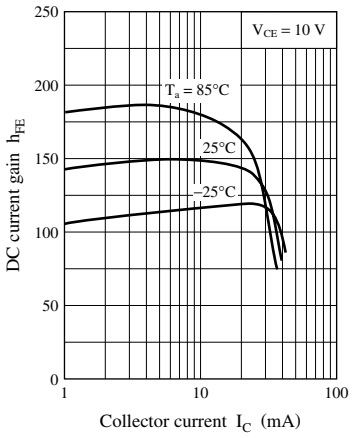
I_C — V_{BE}



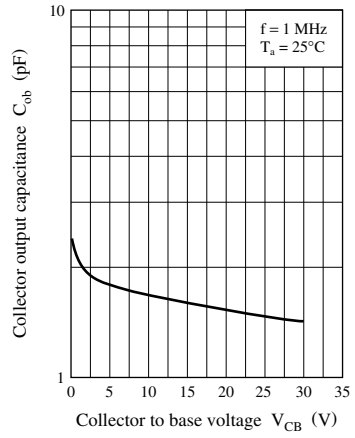
$V_{CE(sat)}$ — I_C



h_{FE} — I_C



C_{ob} — V_{CB}



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