

2SC2404

Silicon NPN epitaxial planar type

For high-frequency amplification

■ Features

- Optimum for RF amplification of FM/AM radios
- High transition frequency f_T
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine 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}	3	V
Collector current	I_C	15	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

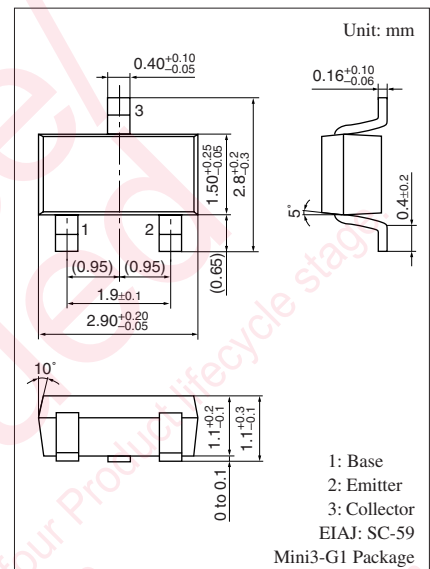
■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu\text{A}$, $I_E = 0$	30			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu\text{A}$, $I_C = 0$	3			V
Base-emitter voltage	V_{BE}	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$		0.72		V
Forward current transfer ratio *	h_{FE}	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$	65		260	—
Transition frequency	f_T	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 100 \text{ MHz}$	450	650		MHz
Reverse transfer capacitance (Common emitter)	C_{re}	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 10.7 \text{ MHz}$		0.8	1.0	pF
Power gain	G_P	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 100 \text{ MHz}$		24		dB
Noise figure	NF	$V_{CB} = 6 \text{ V}$, $I_E = -1 \text{ mA}$, $f = 100 \text{ MHz}$		3.3		dB

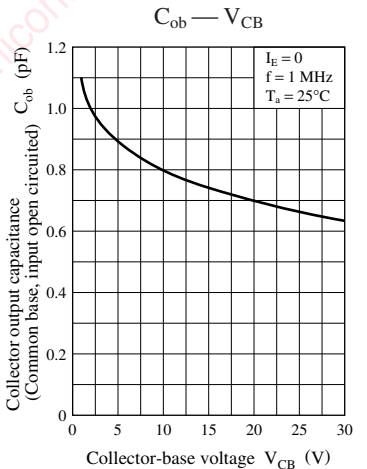
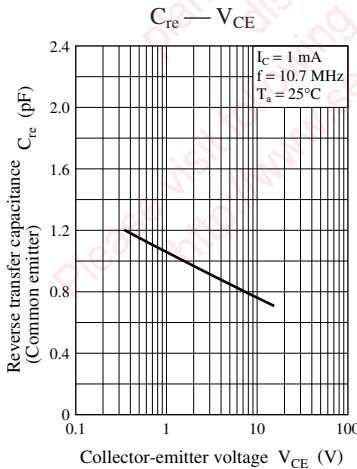
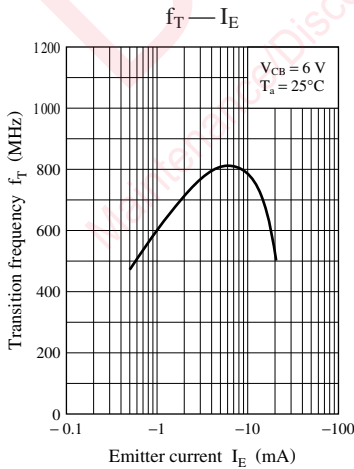
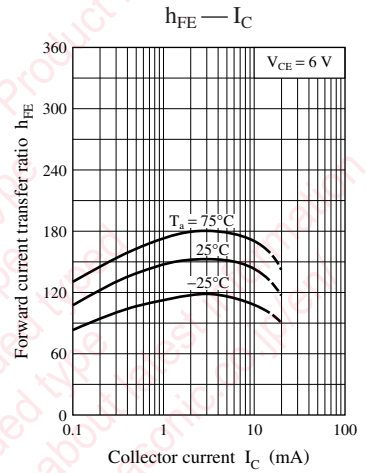
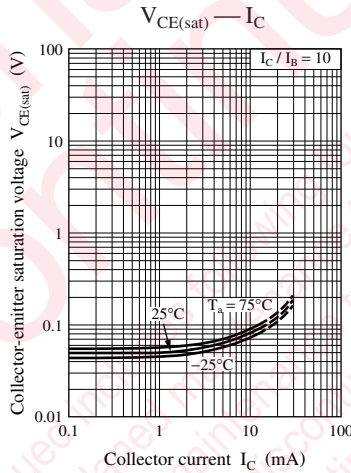
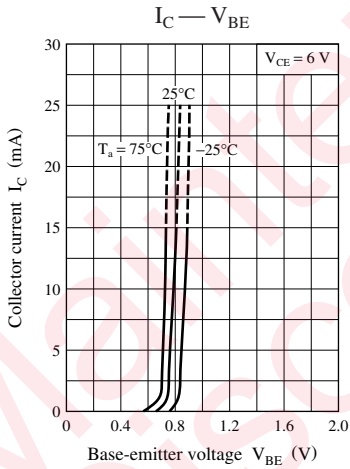
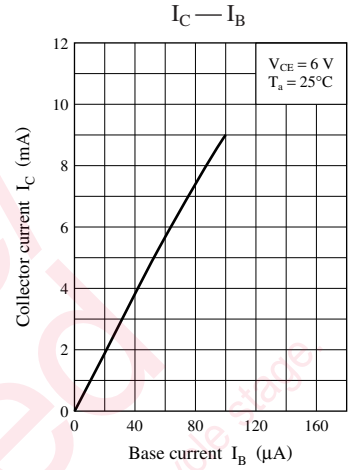
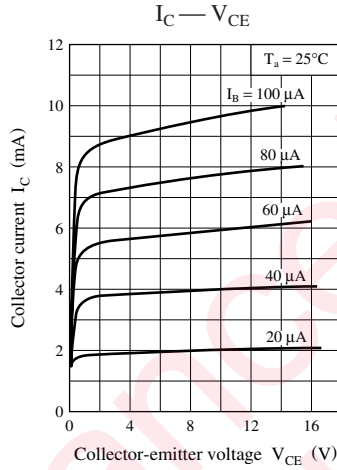
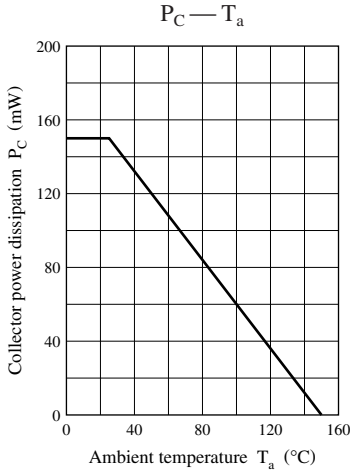
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

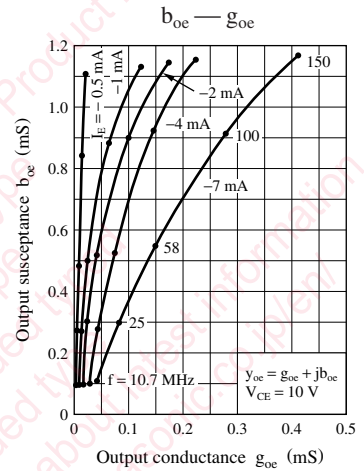
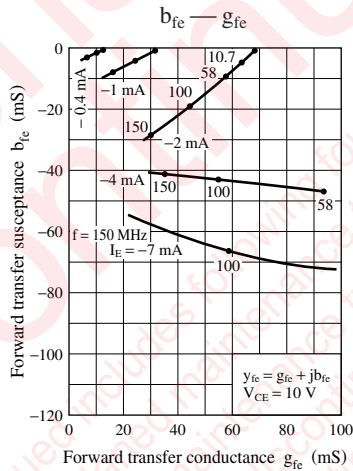
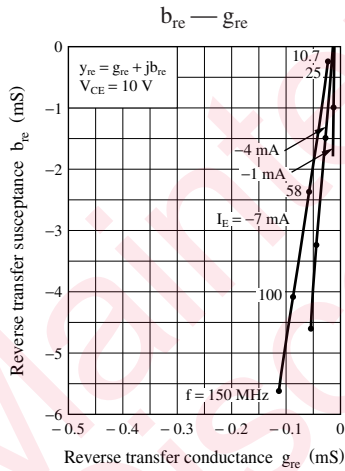
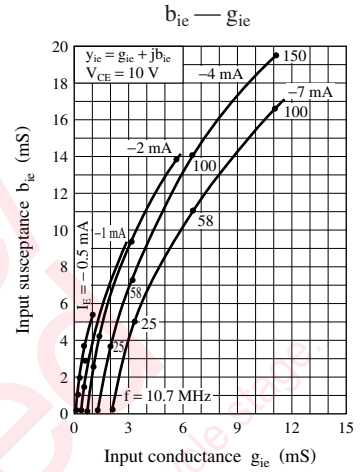
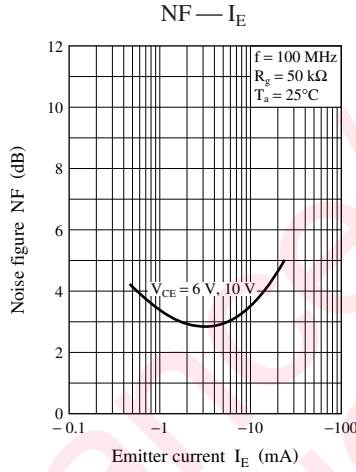
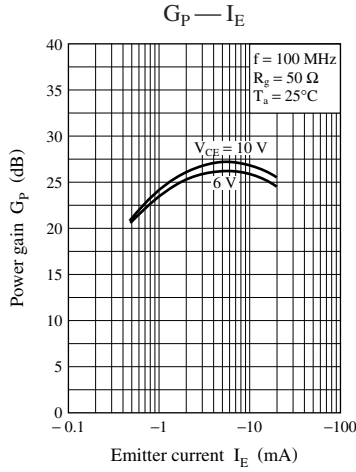
2. *: Rank classification

Rank	C	D
h_{FE}	65 to 160	100 to 260



Marking Symbol: U





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reliability are required, or if the failure or malfunction of the prod-

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mounting or at customer's process. When using products for which
shelf life and the elapsed time since first opening the packages.

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