XN04401 (XN4401)

Silicon PNP epitaxial planar type

For general amplification

Features

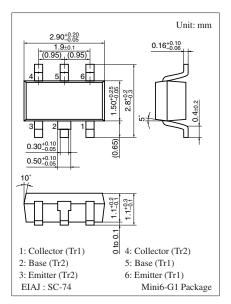
- Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• 2SB0709A (2SB709A) \times 2

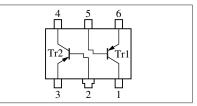
Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	-60	V					
Collector-emitter voltage (Base open)	V _{CEO}	-50	V					
Emitter-base voltage (Collector open)	V _{EBO}	-7	V					
Collector current	I _C	-100	mA					
Peak collector current	I _{CP}	-200	mA					
Total power dissipation	P _T	300	mW					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					

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



Marking Symbol: 5K

Internal Connection

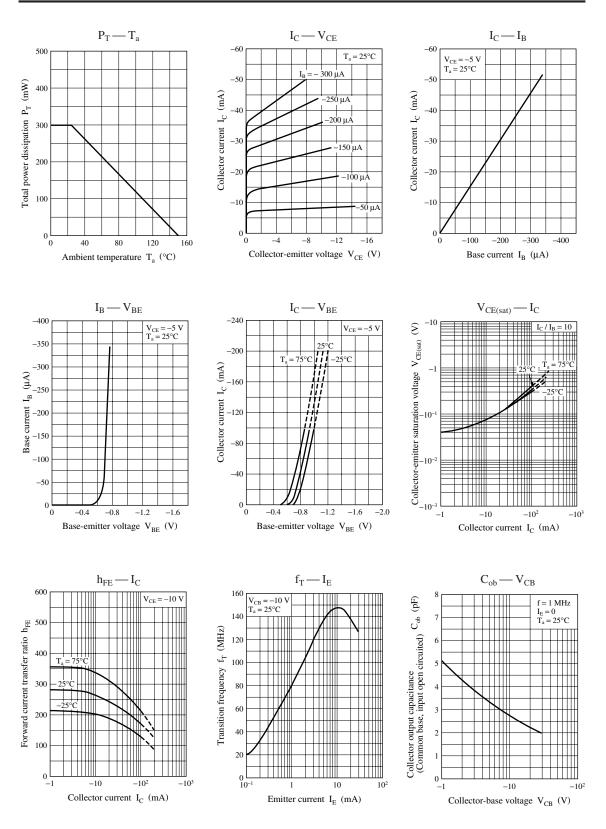


Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

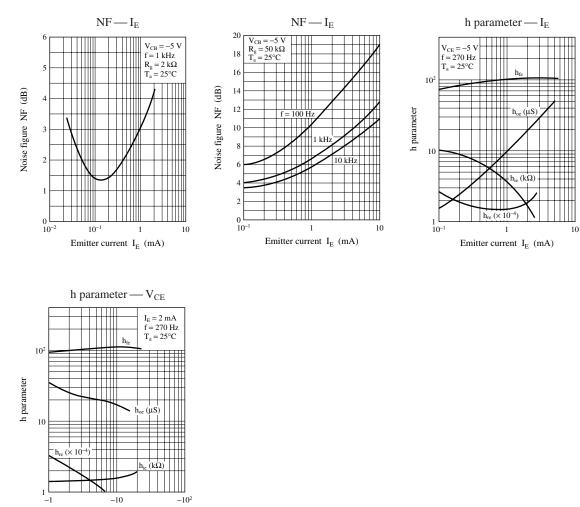
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \ \mu A, \ I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -10 \text{ V}, I_B = 0$			-100	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$	160		460	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$		- 0.3	- 0.5	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		2.7		pF
(Common base, input open circuited)						

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

Note) The part number in the parenthesis shows conventional part number.



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Collector-emitter voltage V_{CE} (V)

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