XN06401 (XN6401)

Silicon PNP epitaxial planer transistor

For general amplification

Features

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

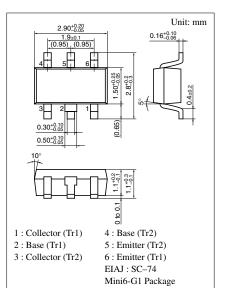
Basic Part Number of Element

• 2SB0709A(2SB709A) \times 2 elements

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

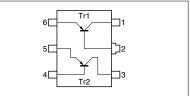
Absolute Maximum Ratings (Ta=25°C)

Electrical Characteristics (Ta=25°C)



Marking Symbol: 50

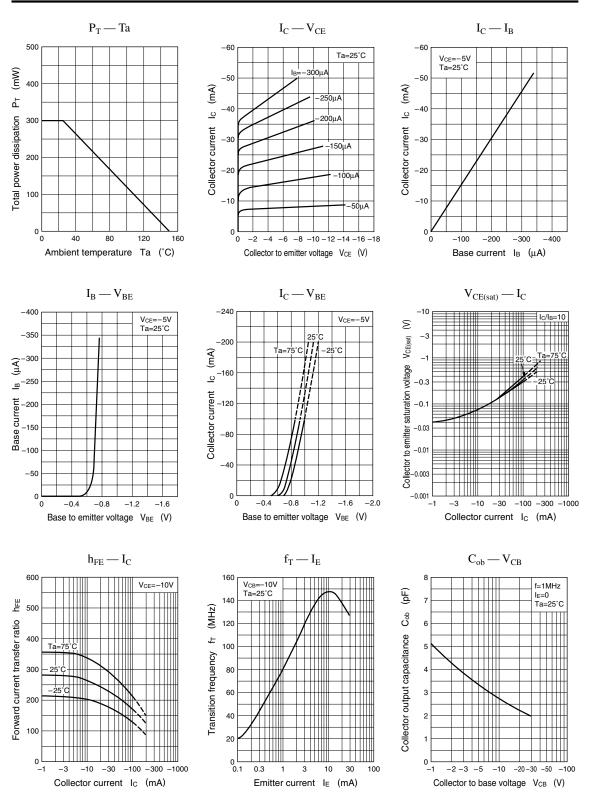
Internal Connection



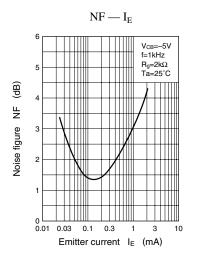
Parameter Symbol Conditions min typ max Unit v Collector to base voltage V_{CBO} $I_{C} = -10\mu A$, $I_{E} = 0$ -60 $I_{C} = -2mA, I_{B} = 0$ -50 V Collector to emitter voltage V_{CEO} Emitter to base voltage $I_E = -10\mu A$, $I_C = 0$ -7 V V_{EBO} $V_{CB} = -20V, I_E = 0$ I_{CBO} -0.1μΑ Collector cutoff current $V_{CE} = -10V, I_B = 0$ -100 I_{CEO} μΑ $V_{CE} = -10V, I_C = -2mA$ Forward current transfer ratio 460 160 h_{FE} Forward current transfer h_{FE} ratio hFE (small/large)* $V_{CE} = -10V, I_C = -2mA$ 0.5 0.99 V_{CE(sat)} $I_{C} = -100 \text{mA}, I_{B} = -10 \text{mA}$ - 0.3 v Collector to emitter saturation voltage -0.5 $V_{CB} = -10V, I_E = 1mA, f = 200MHz$ Transition frequency f_T 80 MHz Collector output capacitance C_{ob} $V_{CB} = -10V$, $I_E = 0$, f = 1MHz2.7 pF

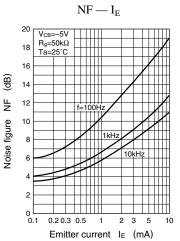
*1 Ratio between 2 elements

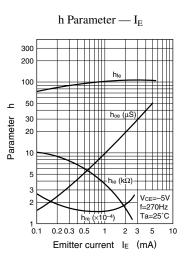
Note) The Part number in the Parenthesis shows conventional part number.

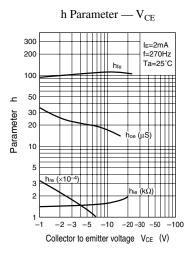


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