XN04402 (XN4402)

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.

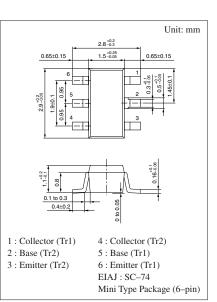
Basic Part Number of Element

• 2SB0710(2SB710) × 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}	-5	V
	Collector current	I _C	- 0.5	А
	Peak collector current	I _{CP}	-1	А
Overall	Total power dissipation	P _T	300	mW
	Junction temperature	Tj	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

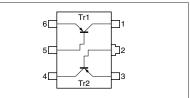
Absolute Maximum Ratings (Ta=25°C)

Electrical Characteristics (Ta=25°C)



Marking Symbol: OH

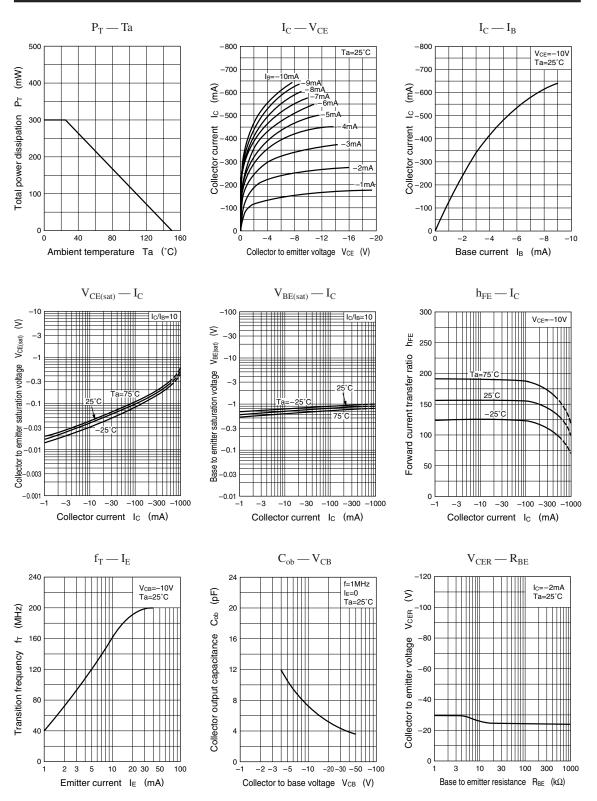
Internal Connection



Parameter Symbol Conditions min typ max Unit V Collector to base voltage V_{CBO} $I_{C} = -10\mu A$, $I_{E} = 0$ -60 Collector to emitter voltage V_{CEO} $I_{C} = -2mA, I_{B} = 0$ -50 V Emitter to base voltage $I_E = -10 \mu A$, $I_C = 0$ -5 V V_{EBO} $V_{CB} = -20V, I_E = 0$ Collector cutoff current I_{CBO} -0.1μΑ $V_{CE} = -10V, I_C = -150mA^*$ 85 340 h_{FE1} Forward current transfer ratio $V_{CE} = -10V, I_C = -500mA^*$ 40 h_{FE2} Collector to emitter saturation voltage $I_{C} = -300 \text{mA}, I_{B} = -30 \text{mA}^{*}$ -0.35-0.6V V_{CE(sat)} Base to emitter saturation voltage $I_{C} = -300 \text{mA}, I_{B} = -30 \text{mA}^{*}$ -1.1-1.5V V_{BE(sat)} $V_{CB} = -10V, I_E = 50mA, f = 200MHz$ Transition frequency f_T 200 MHz $V_{CB} = -10V, I_E = 0, f = 1MHz$ Collector output capacitance C_{ob} 6 15 pF

*Pulse measurement

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



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