XP06401 (XP6401)

Silicon PNP epitaxial planar type

For general amplification

Features

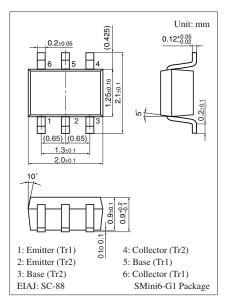
- Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• 2SB0709A (2SB709A) × 2

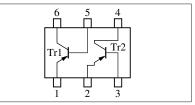
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-60	V
Collector-emitter voltage (Base open)	V _{CEO}	-50	V
Emitter-base voltage (Collector open)	V _{EBO}	-7	V
Collector current	I _C	-100	mA
Peak collector current	I _{CP}	-200	mA
Total power dissipation	P _T	150	mW
Junction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

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



Marking Symbol: 50

Internal Connection

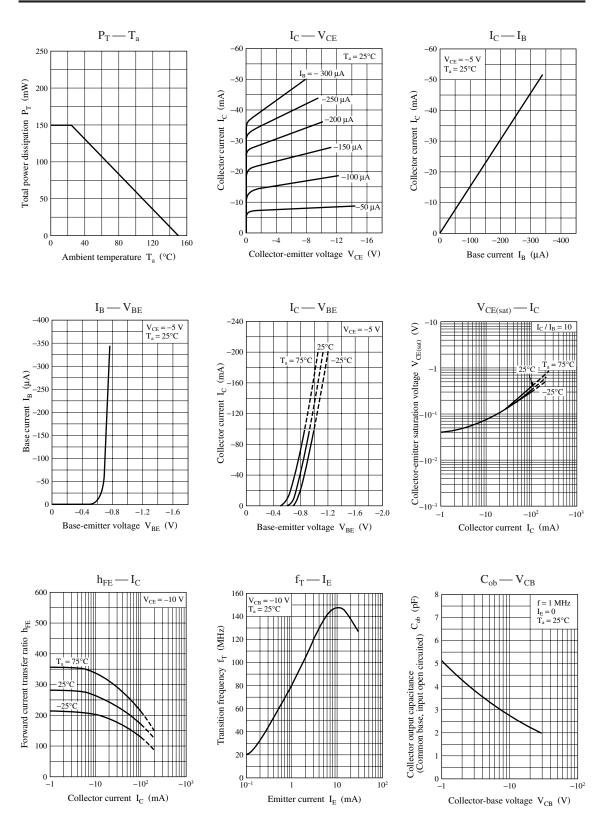


Parameter Symbol Conditions Min Тур Max Unit Collector-base voltage (Emitter open) V_{CBO} $I_{C} = -10 \ \mu A, I_{E} = 0$ -60v Collector-emitter voltage (Base open) V_{CEO} $I_{C} = -2 \text{ mA}, I_{B} = 0$ -50V $I_E = -10 \ \mu A, \ I_C = 0$ v Emitter-base voltage (Collector open) -7 VEBO $V_{CB} = -20 \text{ V}, I_E = 0$ Collector-base cutoff current (Emitter open) -0.1μΑ I_{CBO} Collector-emitter cutoff current (Base open) $V_{CE} = -10 \text{ V}, I_B = 0$ -100 $\mathbf{I}_{\mathrm{CEO}}$ μΑ $V_{CE} = -10 \text{ V}, I_C = -2 \text{ mA}$ Forward current transfer ratio h_{FE} 160 460 h_{FE} ratio * $V_{CE} = -10 \text{ V}, I_{C} = -2 \text{ mA}$ 0.50 0.99 h_{FE(Small/} Large) Collector-emitter saturation voltage $I_{C} = -100 \text{ mA}, I_{B} = -10 \text{ mA}$ -0.5V V_{CE(sat)} $V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$ Transition frequency f_T 80 MHz $V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ Collector output capacitance Cob 2.7 pF (Common base, input open circuited)

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

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Ratio between 2 elements

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

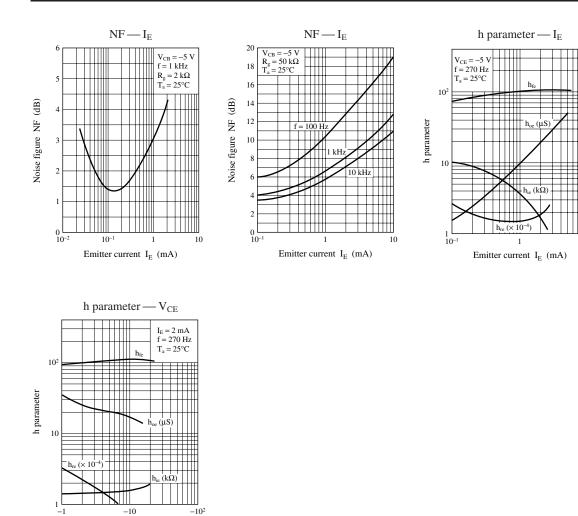


Panasonic

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Collector-emitter voltage V_{CE} (V)

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