Transistors Panasonic

2SB0792A

Silicon PNP epitaxial planar type

For high breakdown voltage low-noise amplification

■ Features

- \bullet High collector-emitter voltage (Base open) V_{CEO}
- Low noise voltage NV
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|---------------------------------------|------------------|-------------|------|--|
| Collector-base voltage (Emitter open) | V _{CBO} | -185 | V | |
| Collector-emitter voltage (Base open) | V _{CEO} | -185 | V | |
| Emitter-base voltage (Collector open) | V _{EBO} | -5 | V | |
| Collector current | I_{C} | -50 | mA | |
| Peak collector current | I _{CP} | -100 | mA | |
| Collector power dissipation | P _C | 200 | mW | |
| Junction temperature | T _j | 150 | °C | |
| Storage temperature | T _{stg} | -55 to +150 | °C | |

■ Package

• Code

Mini3-G1

- Pin Name
 - 1. Base
 - 2. Emitter
 - 3. Collector
- Marking Symbol: 2F

■ Electrical Characteristics $T_a = 25$ °C±3°C

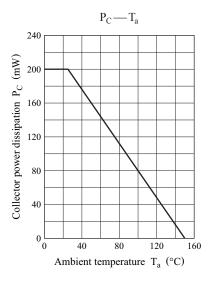
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|----------------------|--|------|-----|-----|------|
| Collector-emitter voltage (Base open) | V _{CEO} | $I_C = -100 \mu\text{A}, I_B = 0$ | -185 | | | V |
| Emitter-base voltage (Collector open) | V_{EBO} | $I_E = -10 \mu A, I_C = 0$ | -5 | | | V |
| Collector-base cutoff current (Emitter open) | I_{CBO} | $V_{\rm CB} = -100 \text{ V}, I_{\rm E} = 0$ | | | -1 | μΑ |
| Forward current transfer ratio * | h_{FE} | $V_{CE} = -5 \text{ V}, I_{C} = -10 \text{ mA}$ | 130 | | 330 | _ |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_C = -30 \text{ mA}, I_B = -3 \text{ mA}$ | | | -1 | V |
| Transition frequency | f_T | $V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$ | | 200 | | MHz |
| Collector output capacitance (Common base, input open circuited) | C _{ob} | $V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ | | 4 | | pF |
| Noise voltage | NV | V_{CB} = -10 V, I_{C} = -1 mA, G_{V} = 80 dB, R_{g} = 100 k Ω , Function = FLAT | | 150 | | mV |

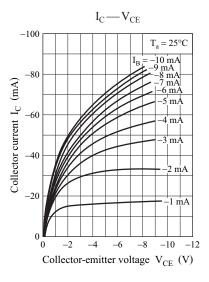
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

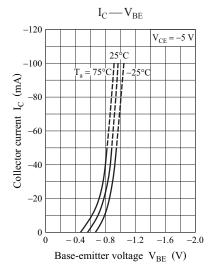
2. *: Rank classification

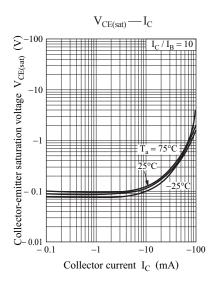
| Rank | R | S |
|-------------------|------------|------------|
| h_{FE} | 130 to 220 | 185 to 330 |
| Merking symbol | 2FR | 2FS |

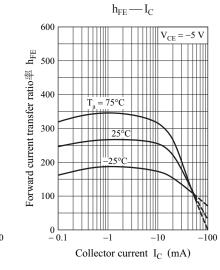
2SB0792A Panasonic

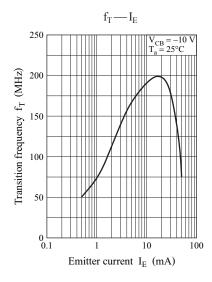


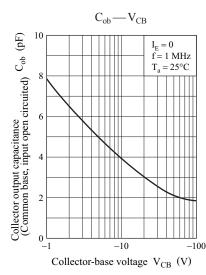






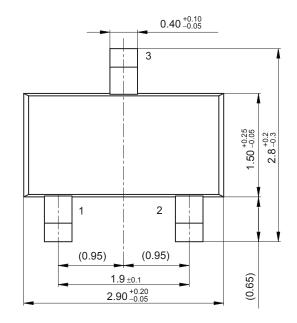


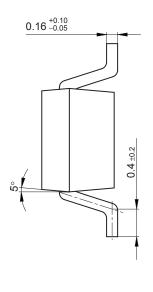


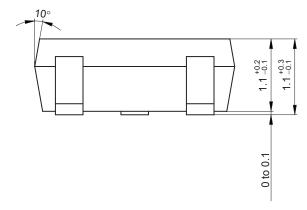


Panasonic 2SB0792A

Mini3-G1 Unit: mm







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