2SA0720A (2SA720A)

Silicon PNP epitaxial planar type

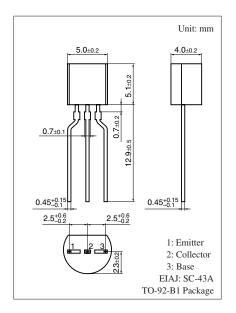
For low-frequency driver amplification Complementary to 2SC1318A

■ Features

- ullet High collector-emitter voltage (Base open) V_{CEO}
- Optimum for the driver stage of a low-frequency and 25 W to 30 W output amplifier

■ Absolute Maximum Ratings $T_a = 25$ °C

| Parameter | Symbol | Rating | Unit | |
|---------------------------------------|------------------|-------------|------|--|
| Collector-base voltage (Emitter open) | V _{CBO} | -80 | V | |
| Collector-emitter voltage (Base open) | V _{CEO} | -70 | V | |
| Emitter-base voltage (Collector open) | V_{EBO} | -5 | V | |
| Collector current | I_C | - 0.5 | A | |
| Peak collector current | I_{CP} | -1 | A | |
| Collector power dissipation | P _C | 625 | mW | |
| Junction temperature | T_{j} | 150 | °C | |
| Storage temperature | T_{stg} | -55 to +150 | °C | |



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

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|----------------------|--|-----|--------|-------|------|
| Collector-base voltage (Emitter open) | V _{CBO} | $I_C = -10 \mu A, I_E = 0$ | -80 | | | V |
| Collector-emitter voltage (Base open) | V _{CEO} | $I_C = -2 \text{ mA}, I_B = 0$ | -70 | | | 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} | $V_{CB} = -20 \text{ V}, I_{E} = 0$ | | | - 0.1 | μΑ |
| Forward current transfer ratio *1 | h _{FE1} *2 | $V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$ | 85 | | 240 | _ |
| | h _{FE2} | $V_{CE} = -10 \text{ V}, I_{C} = -500 \text{ mA}$ | 40 | | | _ |
| Collector-emitter saturation voltage *1 | V _{CE(sat)} | $I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$ | | - 0.2 | - 0.6 | V |
| Base-emitter saturation voltage *1 | V _{BE(sat)} | $I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$ | | - 0.85 | -1.50 | V |
| Transition frequency | f_T | $V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$ | | 120 | | MHz |
| Collector output capacitance | C _{ob} | $V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$ | | 20 | 30 | pF |
| (Common base, input open circuited) | | | | | | |

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

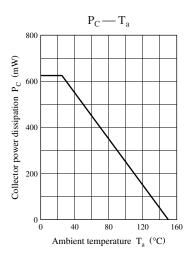
2. *1: Pulse measurment

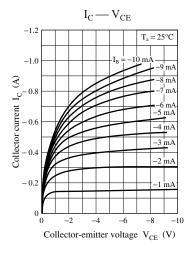
*2: Rank classification

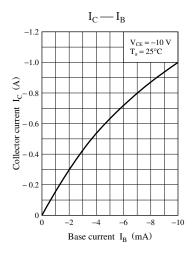
| Rank | Q | R | | |
|--------------------|-----------|------------|--|--|
| $h_{\mathrm{FE}1}$ | 85 to 170 | 120 to 240 | | |

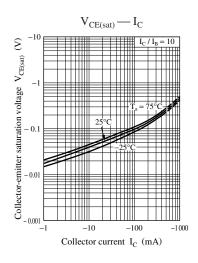
Note) The part number in the parenthesis shows conventional part number.

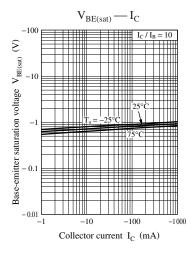
Panasonic

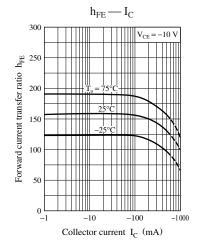


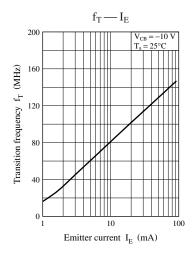


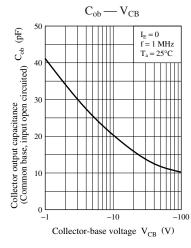


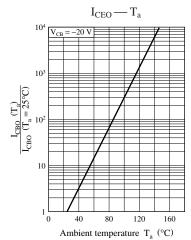












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