

# 2SB1192, 2SB1192A

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## Silicon PNP Epitaxial Planar Type

Power Amplifier

TV Vertical Deflection Output

Complementary Pair with 2SD1772, 2SD1772A

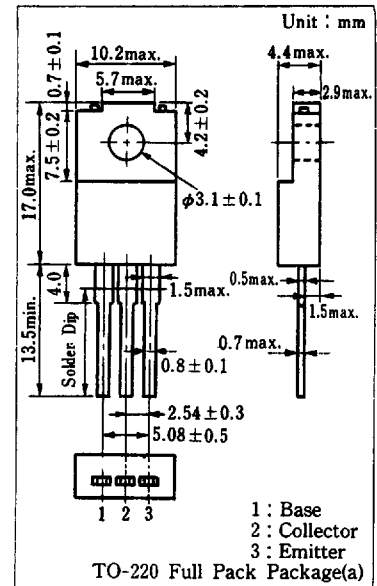
### ■ Features

- High collector-emitter voltage ( $V_{CE0}$ )
- Large collector power dissipation ( $P_C$ )
- "Full Pack" package for simplified mounting on a heat sink with one screw

### ■ Absolute Maximum Ratings ( $T_c=25^\circ\text{C}$ )

| Item                        | Symbol    | Value                  | Unit             |
|-----------------------------|-----------|------------------------|------------------|
| Collector-base voltage      | 2SB1192   | -200                   | V                |
|                             | 2SB1192A  | -200                   |                  |
| Collector-emitter voltage   | 2SB1192   | -150                   | V                |
|                             | 2SB1192A  | -180                   |                  |
| Emitter-base voltage        | $V_{EBO}$ | -6                     | V                |
| Peak collector current      | $I_{CP}$  | -2                     | A                |
| Collector current           | $I_C$     | -1                     | A                |
| Collector power dissipation | $P_C$     | $T_a=25^\circ\text{C}$ | 25               |
|                             |           | $T_a=25^\circ\text{C}$ | 2                |
| Junction temperature        | $T_j$     | 150                    | $^\circ\text{C}$ |
| Storage temperature         | $T_{stg}$ | -55~+150               | $^\circ\text{C}$ |

### ■ Package Dimensions



### ■ Electrical Characteristics ( $T_c=25^\circ\text{C}$ )

| Item                                 | Symbol        | Condition  | min. | typ. | max. | Unit          |
|--------------------------------------|---------------|--|------|------|------|---------------|
| Collector cutoff current             | $I_{CBO}$     | $V_{CB} = -200\text{V}, I_E = 0$                             |      |      | -50  | $\mu\text{A}$ |
| Emitter cutoff current               | $I_{EBO}$     | $V_{EB} = -4\text{V}, I_C = 0$                               |      |      | -50  | $\mu\text{A}$ |
| Collector-emitter voltage            | $V_{CE0}$     | $I_C = -5\text{mA}, I_B = 0$                                 | -150 |      |      | V             |
|                                      |               |  | -180 |      |      |               |
| Emitter-base voltage                 | $V_{EBO}$     | $I_E = -0.5\text{mA}, I_C = 0$                               | -6   |      |      | V             |
| DC current gain                      | $h_{FE1}^*$   | $V_{CE} = -10\text{V}, I_C = -100\text{mA}$                  | 60   |      | 240  |               |
|                                      | $h_{FE2}$     | $V_{CE} = -10\text{V}, I_C = -300\text{mA}$                  | 50   |      |      |               |
| Base-emitter voltage                 | $V_{BE}$      | $V_{CE} = -10\text{V}, I_C = -300\text{mA}$                  |      |      | -1   | V             |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -500\text{mA}, I_B = -50\text{mA}$                    |      |      | -1   | V             |
| Transition frequency                 | $f_T$         | $V_{CE} = -10\text{V}, I_C = -100\text{mA}, f = 1\text{MHz}$ |      | 20   |      | MHz           |
| Collector output capacitance         | $C_{ob}$      | $V_{CB} = -10\text{V}, I_E = 0, f = 1\text{MHz}$             |      | 35   |      | pF            |

### \* $h_{FE1}$ Classifications

| Class     | Q      | P       |
|-----------|--------|---------|
| $h_{FE1}$ | 60~140 | 100~240 |

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$P_C - T_a$   
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