Panasonic

2SA2118

Silicon PNP epitaxial planar type

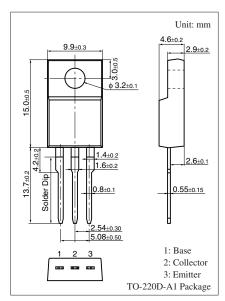
For power amplification
For TV vertical deflection output

■ Features

- Satisfactory linearity of forward current transfer ratio h_{FE}
- Dielectric breakdown voltage of the package: 5 kV
- Full-pack package which can be installed to the heat sink with one screw.

■ Absolute Maximum Ratings $T_C = 25$ °C

| Parameter | Symbol | Rating | Unit |
|---------------------------------------|------------------|-----------------|----------|
| Collector-base voltage (Emitter open) | V _{CBO} | -200 | V |
| Collector-emitter voltage (Base open) | V _{CEO} | -180 | V |
| Emitter-base voltage (Collector open) | V _{EBO} | -6 | V |
| Collector current | I_C | -2 | A |
| Peak collector current | I_{CP} | -3 | A |
| Collector power | P _C | 25 | W |
| dissipation $T_a = 25^{\circ}C$ | | 2.0 Doto Sho | ot411 00 |
| Junction temperature | T_{j} | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |



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

| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--|----------------------|--|------|-----|-----|------|
| Collector-base voltage (Emitter open) | V _{CBO} | $I_C = -50 \ \mu A, I_E = 0$ | -200 | | | V |
| Collector-emitter voltage (Base open) | V _{CEO} | $I_C = -5 \text{ mA}, I_B = 0$ | -180 | | | V |
| Emitter-base voltage (Collector open) | V_{EBO} | $I_E = -500 \ \mu A, \ I_C = 0$ | -6 | | | V |
| Base-emitter voltage | V_{BE} | $V_{CE} = -10 \text{ V}, I_{C} = -400 \text{ mA}$ | | | -1 | V |
| Collector-base cutoff current (Emitter open) | I_{CBO} | $V_{CB} = -200 \text{ V}, I_E = 0$ | | | -50 | μΑ |
| Emitter-base cutoff current (Collector open) | I_{EBO} | $V_{EB} = -4 \text{ V}, I_{C} = 0$ | | | -50 | μΑ |
| Forward current transfer ratio | h _{FE1} * | $V_{CE} = -10 \text{ V}, I_{C} = -150 \text{ mA}$ | 60 | | 240 | _ |
| | h _{FE2} | $V_{CE} = -10 \text{ V}, I_{C} = -400 \text{ mA}$ | 50 | | | |
| Collector-emitter saturation voltage | V _{CE(sat)} | $I_C = -500 \text{ mA}, I_B = -50 \text{ mA}$ | | | -1 | V |
| Transition frequency | f_T | $V_{CE} = -10 \text{ V}, I_{C} = -0.5 \text{ A}, f = 10 \text{ MHz}$ | | 30 | | MHz |

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

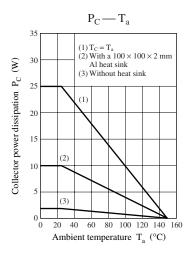
2. *: Rank classification

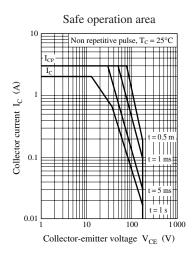
| Rank | Q | Р |
|---------------|-----------|------------|
| $h_{\rm FE1}$ | 60 to 140 | 100 to 240 |

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