Transistor
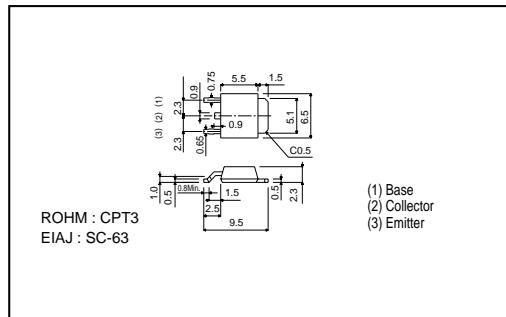
# Power Transistor (−80V, −4A)
## 2SB1474

●**Features**

1) Darlington connection for a high h$_{FE}$.
2) Built-in resistor between base and emitter.
3) Built-in damper doide.

●**Absolute maximum ratings** (Ta=25°C)

| Parameter | Symbol | Limits | Unit | |
|---|---|---|---|---|
| Collector-base voltage | V$_{CBO}$ | -80 | V | |
| Collector-emitter voltage | V$_{CEO}$ | -80 | V | |
| Emitter-base voltage | V$_{EBO}$ | -7 | V | |
| Collector current | I$_C$ | -4 | A(DC) | |
| | | -6 | A | * |
| Collector power dissipation | P$_C$ | 1 | W | |
| | | 10 | W (Tc=25°C) | |
| Junction temperature | Tj | 150 | °C | |
| Storage temperature | Tstg | -55~+150 | °C | |

\* Single pulse, Pw=100ms

●**Packaging specifications and h$_{FE}$**

| Type | 2SB1474 |
|---|---|
| Package | CPT3 |
| h$_{FE}$ | 1k~10k |
| Code | TL |
| Basic ordering unit (pieces) | 2500 |

●**Equivalent circuit**



R$_1$≒3kΩ   B : Base
R$_2$≒300Ω  C : Collector
E : Emitter

●**External dimensions** (Units : mm)



ROHM : CPT3
EIAJ : SC-63

(1) Base
(2) Collector
(3) Emitter
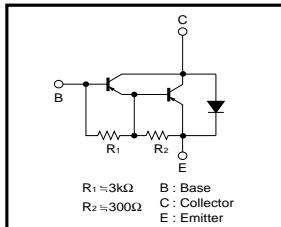
●**Electrical characteristics** (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions | |
|---|---|---|---|---|---|---|---|
| Collector-base breakdown voltage | BV$_{CBO}$ | -80 | - | - | V | I$_C$=-50μA | |
| Collector-emitter breakdown voltage | BV$_{CEO}$ | -80 | - | - | V | I$_C$=-1mA | |
| Collector cutoff current | I$_{CBO}$ | - | - | -100 | μA | V$_{CB}$=-80V | |
| Emitter cutoff current | I$_{EBO}$ | - | - | -3 | mA | V$_{EB}$=-5V | |
| Collector-emitter saturation voltage | V$_{CE(sat)}$ | - | -1 | -1.5 | V | I$_C$/I$_B$=-2A/-4mA | *1 |
| DC current transfer ratio | h$_{FE}$ | 1000 | 5000 | 10000 | - | V$_{CE}$/I$_C$=-3V/-2A | *1 |
| Transition frequency | f$_T$ | - | 12 | - | MHz | V$_{CE}$=-5V, I$_E$=0.5A, f=10MHz | *2 |
| Output capacitance | Cob | - | 45 | - | pF | V$_{CB}$=-10V, I$_E$=0A, f=1MHz | |

*1 Measured using pulse current. *2 Transition frequency of the device.

ROHM

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