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# Silicon NPN Power Transistors 2SD1274 2SD1274A 2SD1274B

## DESCRIPTION

- With TO-220Fa package
- High $V_{CBO}$
- High speed switching

## APPLICATIONS

- Power amplifier applicaitons

## PINNING

| PIN | DESCRIPTION |
|---|---|
| 1 | Base |
| 2 | Collector |
| 3 | Emitter |

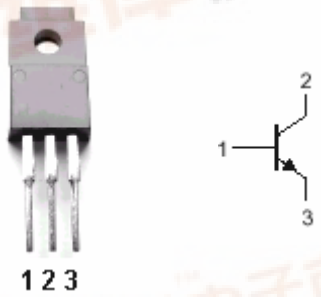


Fig.1 simplified outline (TO-220Fa) and symbol

## Absolute maximum ratings (Ta=25℃)

| SYMBOL | PARAMETER | | CONDITIONS | VALUE | UNIT |
|---|---|---|---|---|---|
| $V_{CBO}$ | Collector-base voltage | 2SD1274 | Open emitter | 150 | V |
| | | 2SD1274A | | 200 | |
| | | 2SD1274B | | 250 | |
| $V_{CEO}$ | Collector-emitter voltage | | Open base | 80 | V |
| $V_{EBO}$ | Emitter-base voltage | | Open collector | 6 | V |
| $I_C$ | Collector current (DC) | | | 5 | A |
| $P_C$ | Collector power dissipation | | $T_C$=25℃ | 40 | W |
| | | | $T_a$=25℃ | 2 | |
| $T_j$ | Junction temperature | | | 150 | ℃ |
| $T_{stg}$ | Storage temperature | | | -55~150 | ℃ |

固电半导体 INCHANGE SEMICONDUCTOR

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## CHARACTERISTICS

**Tj=25℃ unless otherwise specified**

| SYMBOL | PARAMETER | | CONDITIONS | MIN | TYP. | MAX | UNIT |
|---|---|---|---|---|---|---|---|
| $V_{CEO(SUS)}$ | Collector-emitter sustaining voltage | | $I_C$=0.2A, L=25mH | 80 | | | V |
| $V_{(BR)EBO}$ | Emitter-base breakdown voltage | | $I_E$=1mA, $I_C$=0 | 6 | | | V |
| $V_{CEsat}$ | Collector-emitter saturation voltage | | $I_C$=5A; $I_B$=1A | | | 1.6 | V |
| $V_{BE}$ | Base-emitter voltage | | $I_C$=5A ; $V_{CE}$=4V | | | 1.5 | V |
| $I_{CBO}$ | Collector cut-off current | 2SD1274 | $V_{CB}$=150V; $I_E$=0 | | | 1 | mA |
| | | 2SD1274A | $V_{CB}$=200V; $I_E$=0 | | | | |
| | | 2SD1274B | $V_{CB}$=250V; $I_E$=0 | | | | |
| $I_{EBO}$ | Emitter cut-off current | | $V_{EB}$=5V; $I_C$=0 | | | 50 | μA |
| $h_{FE}$ | DC current gain | | $I_C$=5A ; $V_{CE}$=4V | 14 | | | |
| $f_T$ | Transition frequency | | $I_C$=0.5A ; $V_{CE}$=10V | | 40 | | MHz |
| $t_f$ | Fall time | | $I_C$=5A ;$I_{B1}$=0.8A $V_{EB}$=-5V | | | 1.0 | μs |

固电半导体
INCHANGE SEMICONDUCTOR

**PACKAGE OUTLINE**

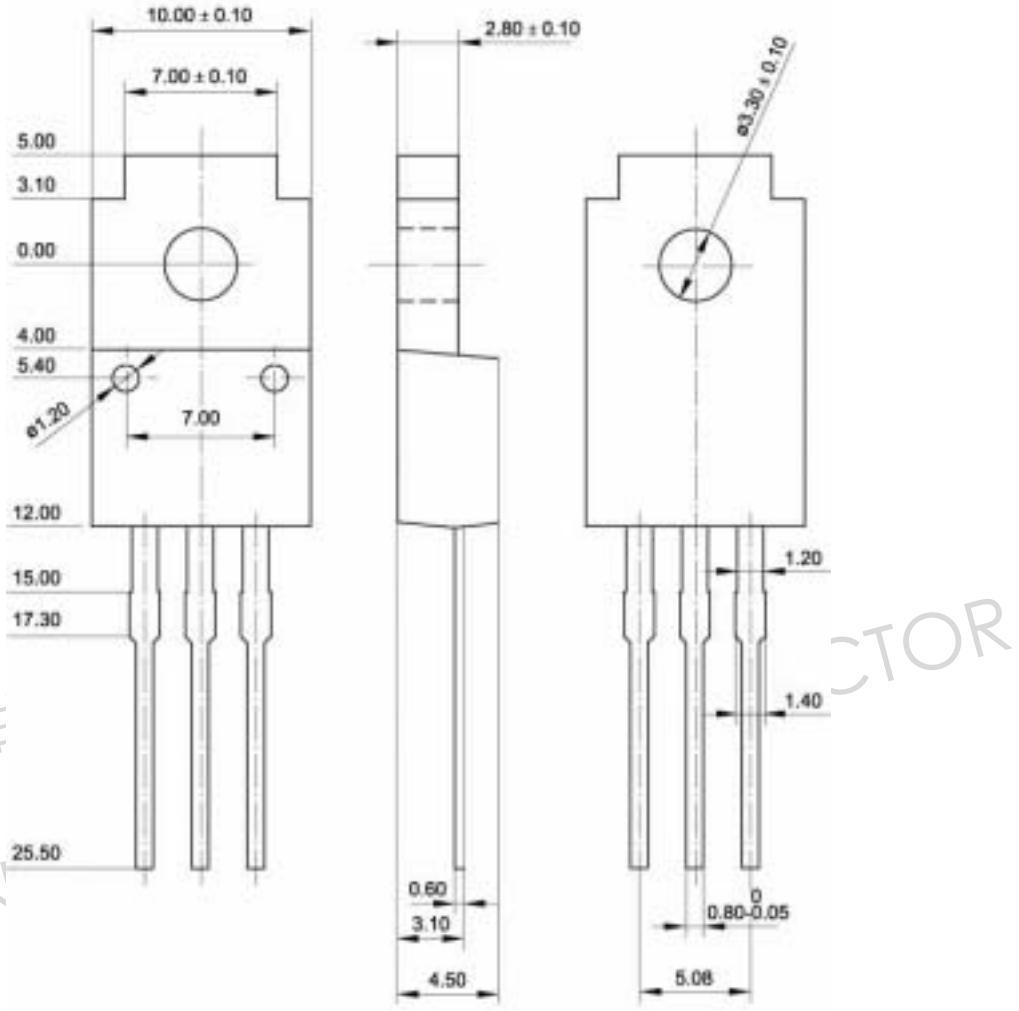


**Fig.2 Outline dimensions (unindicated tolerance:±0.15 mm)**