

Silicon PNP Power Transistors

2SB856

DESCRIPTION

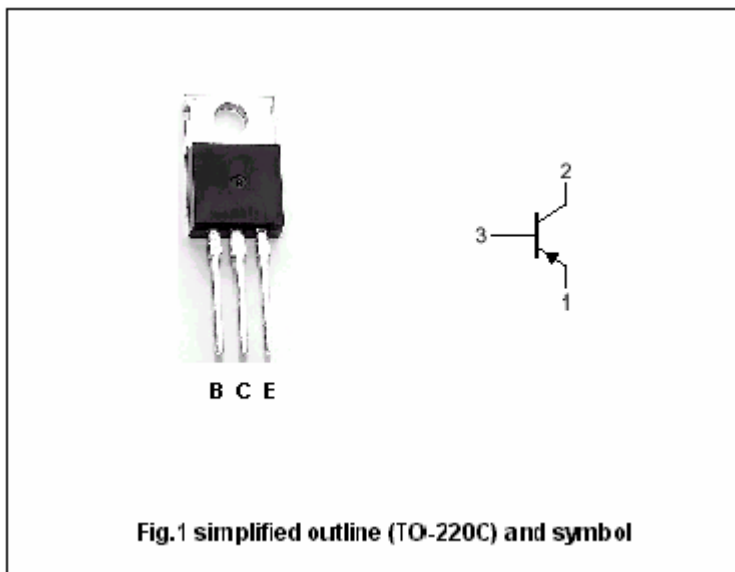
- With TO-220C package
- Low collector saturation voltage

APPLICATIONS

- Low frequency power amplifier

PINNING

| PIN | DESCRIPTION |
|-----|--------------------------------------|
| 1 | Emitter |
| 2 | Collector;connected to mounting base |
| 3 | Base |



Absolute maximum ratings(Tc=25°C)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|----------------------|---------|------|
| V _{CB0} | Collector-base voltage | Open emitter | -50 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -50 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -4 | V |
| I _C | Collector current | | -3 | A |
| P _C | Collector power dissipation | T _C =25°C | 25 | W |
| T _j | Junction temperature | | 150 | °C |
| T _{stg} | Storage temperature | | -45~150 | °C |

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CHARACTERISTICS

T_j=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|-----|------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C =-50mA; R _{BE} =∞ | -50 | | | V |
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C =-5mA; I _E =0 | -50 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-5mA; I _C =0 | -4 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-2 A; I _B =-0.2 A | | | -1.2 | V |
| V _{BE} | Base-emitter voltage | I _C =-1A ; V _{CE} =-4V | | | -1.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-20V; I _E =0 | | | -100 | μA |
| h _{FE-1} | DC current gain | I _C =-1A ; V _{CE} =-4V | 35 | | 200 | |
| h _{FE-2} | DC current gain | I _C =-0.1A ; V _{CE} =-4V | 35 | | | |
| f _T | Transition frequency | I _C =-0.5A ; V _{CE} =-4V | | 35 | | MHz |

◆ h_{FE-1} classifications

| A | B | C |
|-------|--------|---------|
| 35-70 | 60-120 | 100-200 |

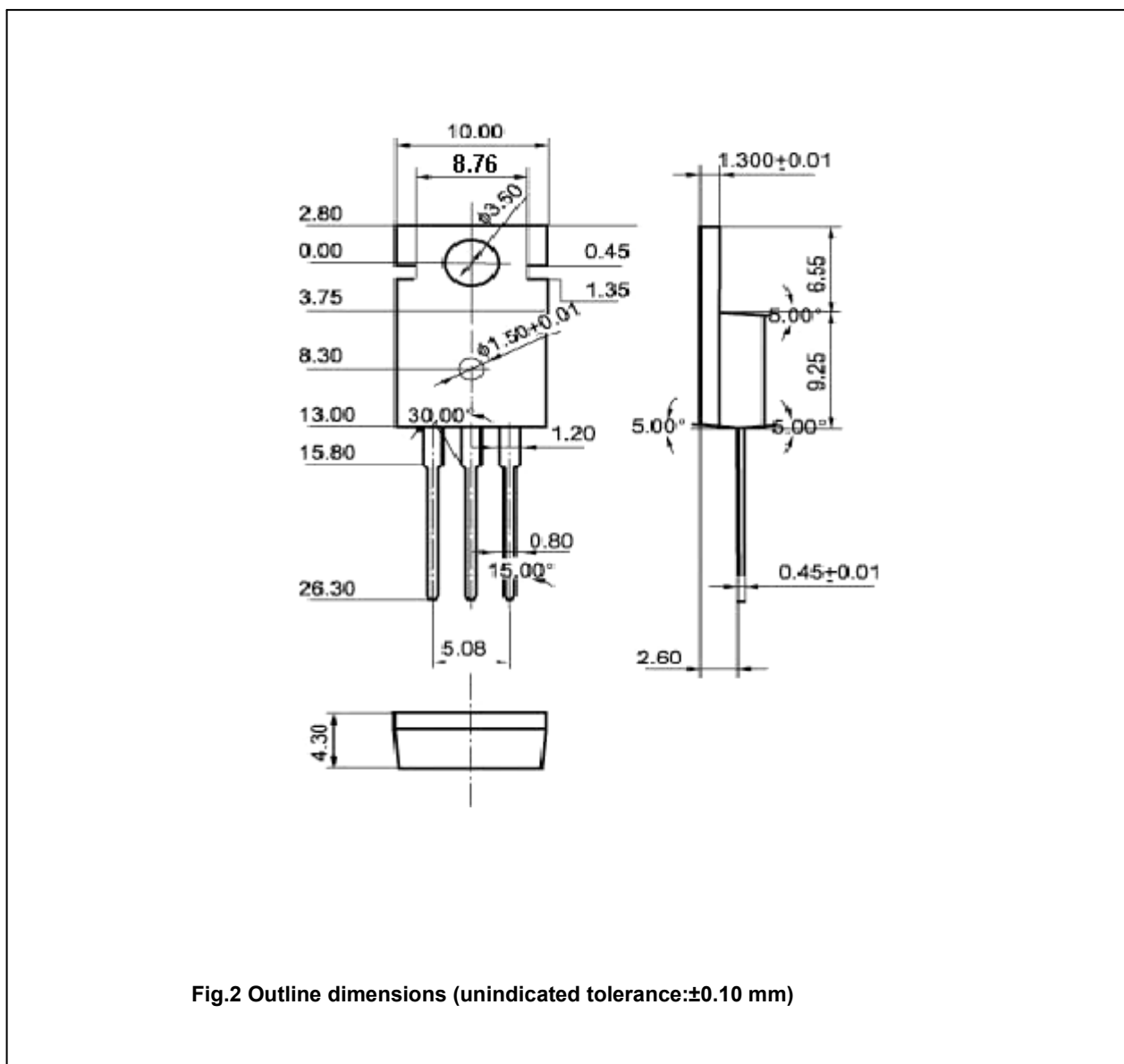
Silicon PNP Power Transistors**2SB856****PACKAGE OUTLINE**

Fig.2 Outline dimensions (unindicated tolerance: ± 0.10 mm)