

Silicon PNP Power Transistors

2SB1065

DESCRIPTION

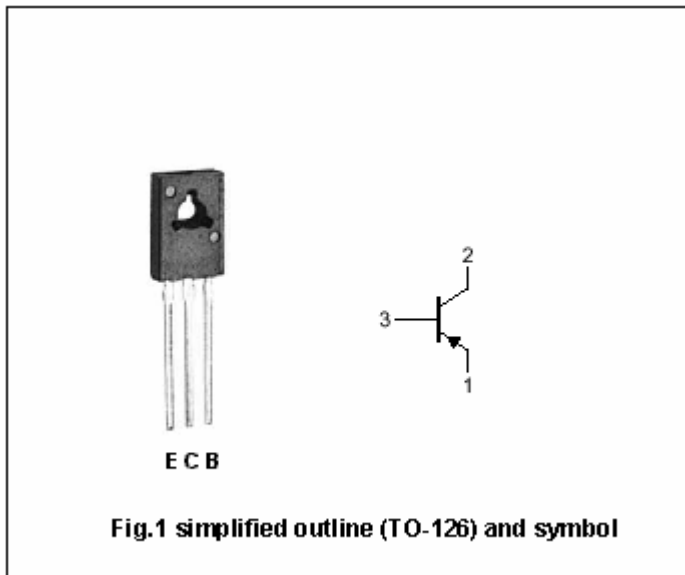
- With TO-126 package
- Complement to type 2SD1506
- Low collector saturation voltage

APPLICATIONS

- For use in low frequency power amplifier applications

PINNING

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



Absolute maximum ratings(Ta=25)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|---------------------------|--------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | -60 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -50 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I _C | Collector current | | -3 | A |
| I _{CM} | Collector current-peak | | -4.5 | A |
| P _D | Total power dissipation | T _C =25 | 10 | W |
| T _j | Junction temperature | | 150 | |
| T _{stg} | Storage temperature | | -55~150 | |

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CHARACTERISTICS

T_j=25 unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|-----|------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C =-1mA, I _B =0 | -50 | | | V |
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C =-50 μA, I _E =0 | -60 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-50 μA, I _C =0 | -5 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-2A; I _B =-0.2A | | | -1.0 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-2A; I _B =-0.2A | | | -1.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-40V; I _E =0 | | | -1.0 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-4V; I _C =0 | | | -1.0 | μA |
| h _{FE} | DC current gain | I _C =-0.5A; V _{CE} =-3V | 56 | | 390 | |
| C _{OB} | Output capacitance | I _E =0; V _{CB} =-10V, f=1MHz | | 50 | | pF |
| f _T | Transition frequency | I _C =-0.5A; V _{CE} =-5V | | 70 | | MHz |

◆ h_{FE} Classifications

| N | P | Q | R |
|--------|--------|---------|---------|
| 56-120 | 82-180 | 120-270 | 180-390 |

PACKAGE OUTLINE

