

Inchange Semiconductor

Product Specification

Silicon PNP Power Transistors

2SB668

DESCRIPTION

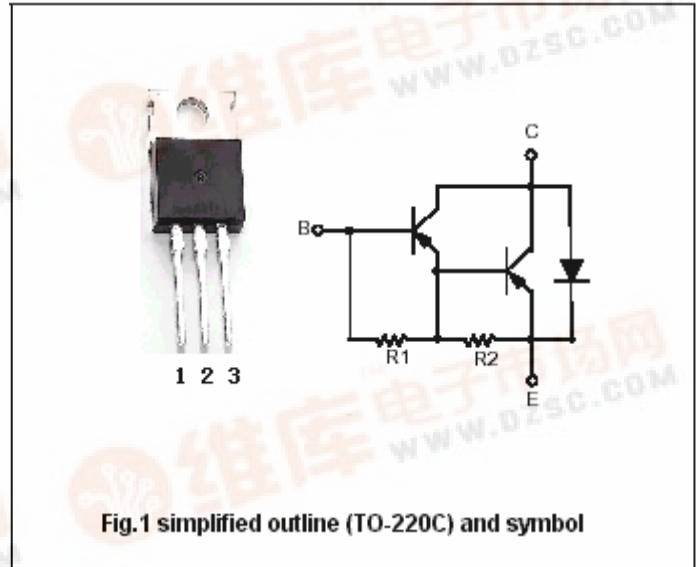
- With TO-220C package
- High DC current gain
- DARLINGTON

APPLICATIONS

- For use in power amplifier and switching applications

PINNING

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



Absolute maximum ratings($T_a=25^\circ\text{C}$)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|-----------|-----------------------------|----------------|---------|------|
| V_{CBO} | Collector-base voltage | Open emitter | -100 | V |
| V_{CEO} | Collector-emitter voltage | Open base | -100 | V |
| V_{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I_C | Collector current | | -3 | A |
| I_{CM} | Collector current-peak | | -5 | A |
| P_C | Collector power dissipation | $T_C=25$ | 25 | W |
| T_j | Junction temperature | | 150 | |
| T_{stg} | Storage temperature | | -55~150 | |

Silicon PNP Power Transistors

2SB668

CHARACTERISTICS

T_j=25 unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--------------------------------------------|------|------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C =-10mA, I _B =0 | -100 | | | V |
| V _{(BR)CBO} | Collector-base breakdown voltage | I _C =-1mA, I _E =0 | -100 | | | V |
| V _{(BR)EBO} | Emitter-base breakdown voltage | I _E =-2mA, I _C =0 | -5 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-2A, I _B =-8mA | | | -2.0 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-2A, I _B =-8mA | | | -2.5 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-120V, I _E =0 | | | -100 | μ A |
| I _{CEO} | Collector cut-off current | V _{CE} =-100V, I _B =0 | | | -500 | μ A |
| I _{EBO} | Emitter cut-off current | V _{EB} =-5V, I _C =0 | | | -2 | mA |
| h _{FE} | DC current gain | I _C =-1A ; V _{CE} =-3V | 2000 | | | |

Silicon PNP Power Transistors

2SB668

PACKAGE OUTLINE

