

Silicon PNP Power Transistors 2SA1306 2SA1306A 2SA1306B

DESCRIPTION

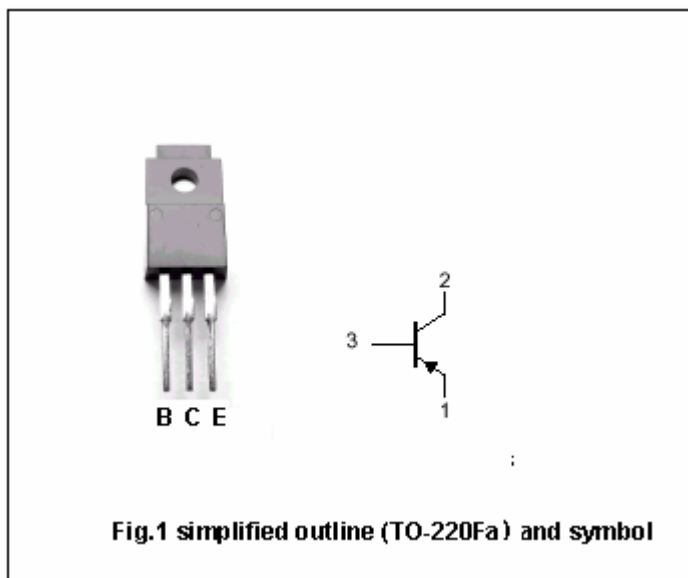
- With TO-220Fa package
- Complement to type
2SC3298,2SC3298A,2SC3298B

APPLICATIONS

- Power amplifier applications
- Driver stage amplifier applications

PINNING

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



Absolute maximum ratings(Ta=25°C)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|----------------------|---------|------|
| V _{CBO} | Collector-base voltage | 2SA1306 | -160 | V |
| | | 2SA1306A | -180 | |
| | | 2SA1306B | -200 | |
| V _{CEO} | Collector-emitter voltage | 2SA1306 | -160 | V |
| | | 2SA1306A | -180 | |
| | | 2SA1306B | -200 | |
| V _{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I _C | Collector current | | -1.5 | A |
| I _B | Base current | | -0.15 | A |
| P _C | Collector power dissipation | T _C =25°C | 20 | W |
| T _j | Junction temperature | | 150 | °C |
| T _{stg} | Storage temperature | | -55~150 | °C |

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2SA1306 2SA1306A 2SA1306B

CHARACTERISTICS

T_j=25 °C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | 2SA1306 | -160 | | | V |
| | | 2SA1306A | -180 | | | |
| | | 2SA1306B | -200 | | | |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-0.5A, I _B =-50mA | | | -1.5 | V |
| V _{BE} | Base-emitter voltage | I _C =-0.5A, V _{CE} =-5V | | | -1.0 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-160V, I _E =0 | | | -1.0 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-5V, I _C =0 | | | -1.0 | μA |
| h _{FE} | DC current gain | I _C =-0.1A; V _{CE} =-5V | 70 | | 240 | |
| C _{ob} | Output capacitance | I _E =0; V _{CB} =-10V, f=1MHz | | 30 | | pF |
| f _T | Transition frequency | I _C =-0.1A; V _{CE} =-10V | | 100 | | MHz |

◆ h_{FE} Classifications

| O | Y |
|--------|---------|
| 70-140 | 120-240 |

PACKAGE OUTLINE

