

Silicon PNP Power Transistors

2SA1232

DESCRIPTION

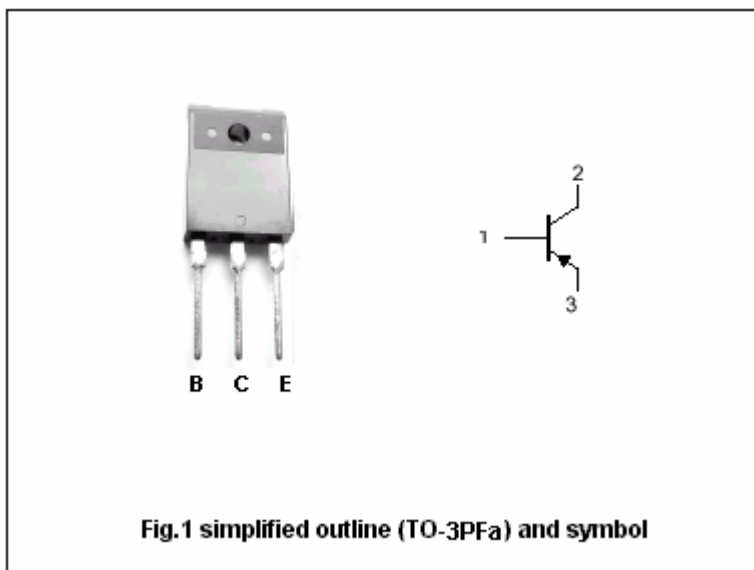
- With TO-3PFa package
- Complement to type 2SC3012

APPLICATIONS

- Audio frequency power amplifier.

PINNING

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



Absolute maximum ratings(Ta=□)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|---------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | -130 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -130 | V |
| V _{EBO} | Emitter-base voltage | Open collector | -5 | V |
| I _C | Collector current | | -10 | A |
| I _{CM} | Collector current-peak | | -15 | A |
| P _C | Collector power dissipation | T _C =25□ | 100 | W |
| T _j | Junction temperature | | 150 | □ |
| T _{stg} | Storage temperature | | -55~150 | □ |

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CHARACTERISTICS

T_j=25 °C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|--------------------|--------------------------------------|--|-----|------|------|------|
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-5A; I _B =-0.5A | | -0.6 | -1.5 | V |
| V _{BEsat} | Base-emitter saturation voltage | I _C =-5A; I _B =-0.5A | | -1.3 | -2.0 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-130V; I _E =0 | | | -50 | μA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-3V; I _C =0 | | | -50 | μA |
| h _{FE-1} | DC current gain | I _C =-2A; V _{CE} =-5V | 60 | | 320 | |
| h _{FE-2} | DC current gain | I _C =-5A; V _{CE} =-5V | 40 | | | |
| C _{ob} | Output capacitance | I _E =0; V _{CB} =-10V; f=1MHz | | 250 | | pF |
| f _T | Transition frequency | I _C =-1A; V _{CE} =-5V | | 60 | | MHz |

◆ h_{FE-1} Classifications

| R | Q | P |
|--------|---------|---------|
| 60-120 | 100-200 | 160-320 |

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PACKAGE OUTLINE



Fig.2 Outline dimensions (unindicated tolerance:±0.30mm)