

Silicon PNP Power Transistors

2SA1141

DESCRIPTION

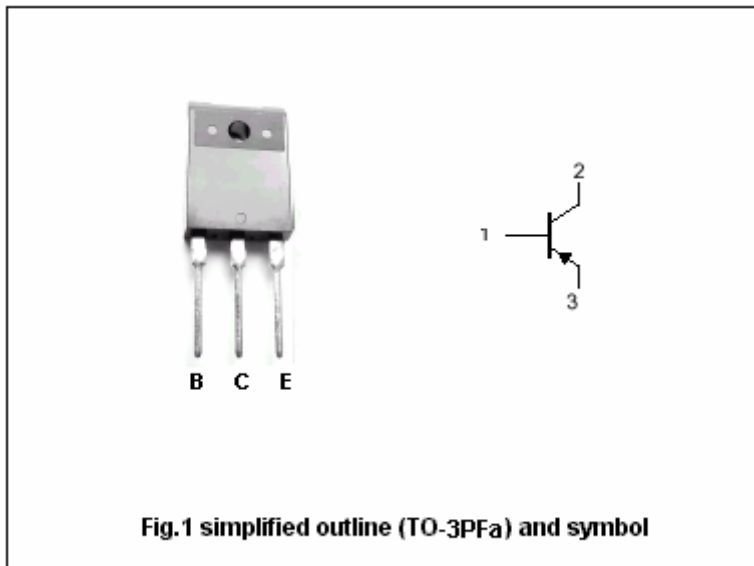
- With TO-3PFa package
- Complement to type 2SC2681
- High transition frequency

APPLICATIONS

- Audio frequency power amplifier
- High frequency power amplifier

PINNING

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



Absolute maximum ratings(Ta=25°C)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|-----------------------------|----------------------|---------|------|
| V _{CBO} | Collector-base voltage | Open emitter | -115 | V |
| V _{CEO} | Collector-emitter voltage | Open base | -115 | 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°C | 100 | W |
| | | T _a =25°C | 2 | |
| T _j | Junction temperature | | 150 | °C |
| T _{stg} | Storage temperature | | -55~150 | °C |

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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 =-4.5A ; I _B =-0.45A | | -0.7 | -1.5 | V |
| V _{BE} | Base-emitter on voltage | I _C =-4.5A ; V _{CE} =-2V | | -1.2 | -2.0 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-80V; I _E =0 | | | -50 | μ A |
| I _{EBO} | Emitter cut-off current | V _{EB} =-5V; I _C =0 | | | -50 | μ A |
| h _{FE-1} | DC current gain | I _C =-1A ; V _{CE} =-2V | 60 | | 200 | |
| h _{FE-2} | DC current gain | I _C =-4.5A ; V _{CE} =-2V | 40 | | | |
| C _{OB} | Output capacitance | I _E =0 ; V _{CB} =-10V; f=1MHz | | 390 | | pF |
| f _T | Transition frequency | I _C =-1A ; V _{CE} =-2V | | 90 | | MHz |

◆ h_{FE-1} classifications

| R | Q |
|--------|---------|
| 60-120 | 100-200 |

PACKAGE OUTLINE

