

Silicon PNP Power Transistors

2SA1672

DESCRIPTION

- With TO-3PML package
- Complement to type 2SC4387

APPLICATIONS

- Audio and general purpose

PINNING

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

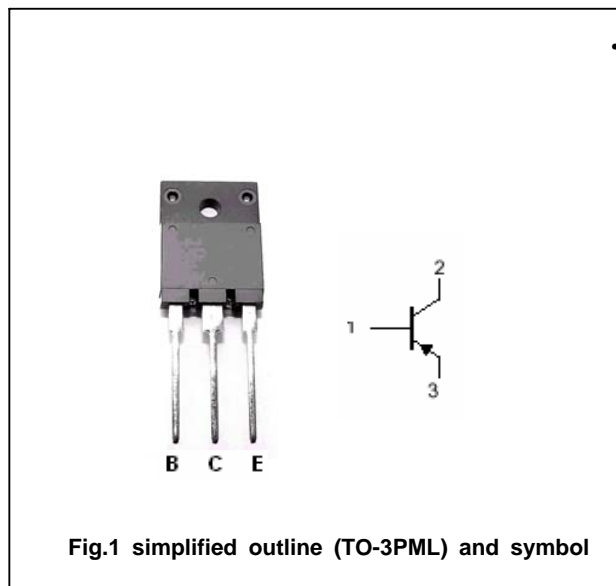


Fig.1 simplified outline (TO-3PML) and symbol

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

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|-----------|-----------------------------|------------------------|---------|------------------|
| V_{CBO} | Collector-base voltage | Open emitter | -140 | V |
| V_{CEO} | Collector-emitter voltage | Open base | -140 | V |
| V_{EBO} | Emitter-base voltage | Open collector | -6 | V |
| I_C | Collector current | | -10 | A |
| I_B | Base current | | -4 | A |
| P_C | Collector power dissipation | $T_C=25^\circ\text{C}$ | 80 | W |
| T_j | Junction temperature | | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage temperature | | -55~150 | $^\circ\text{C}$ |

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CHARACTERISTICS

T_j=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|-----------------------------------------------|------|------|------|------|
| V _{(BR)CEO} | Collector-emitter breakdown voltage | I _C =-50mA; I _B =0 | -140 | | | V |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-5 A; I _B =-0.5 A | | | -2.0 | V |
| I _{CBO} | Collector cut-off current | V _{CB} =-140V; I _E =0 | | | -10 | μ A |
| I _{EBO} | Emitter cut-off current | V _{EB} =-6V; I _C =0 | | | -10 | μ A |
| h _{FE} | DC current gain | I _C =-3A ; V _{CE} =-4V | 50 | | 180 | |
| f _T | Transition frequency | I _C =-0.5A ; V _{CE} =-12V | | 20 | | MHz |

Switching times

| | | | | | | |
|------------------|--------------|----------------------------------------------------------------------------------------------------------------|--|------|--|-----|
| t _{on} | Turn-on time | I _C =-5A; R _L =12 Ω I _{B1} =-I _{B2} =-0.5A V _{CC} =-60V | | 0.30 | | μ s |
| t _{stg} | Storage time | | | 0.90 | | μ s |
| t _f | Fall time | | | 0.20 | | μ s |

◆ h_{FE} classifications

| O | P | Y |
|--------|--------|--------|
| 50-100 | 70-140 | 90-180 |

