

Silicon PNP Power Transistors

2N6226 2N6227 2N6228

DESCRIPTION

- With TO-3 package
- Low collector saturation voltage
- Excellent safe operating area

APPLICATIONS

- For high power audio;stepping motor and other linear applications

PINNING

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

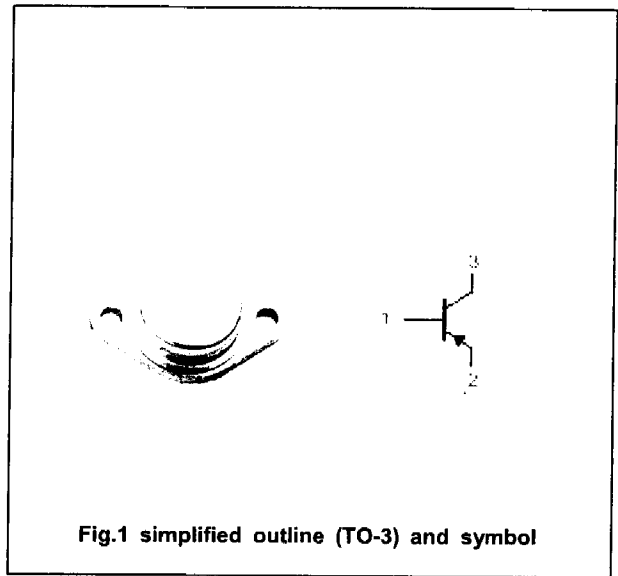


Fig.1 simplified outline (TO-3) and symbol

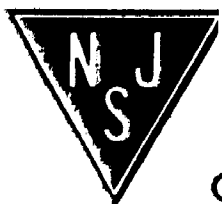
Absolute maximum ratings(Ta=)

| SYMBOL | PARAMETER | CONDITIONS | VALUE | UNIT |
|------------------|---------------------------|---------------------|---------|------|
| V _{CBO} | Collector-base voltage | 2N6226 | -100 | V |
| | | 2N6227 | -120 | |
| | | 2N6228 | -140 | |
| V _{CEO} | Collector-emitter voltage | 2N6226 | -100 | V |
| | | 2N6227 | -120 | |
| | | 2N6228 | -140 | |
| V _{EBO} | Emitter-base voltage | Open collector | -7 | V |
| I _C | Collector current | | -6 | A |
| P _D | Total power dissipation | T _C =25_ | 150 | W |
| T _J | Junction temperature | | 150 | |
| T _{stg} | Storage temperature | | -65-200 | |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | VALUE | UNIT |
|--------------------|-------------------------------------|-------|------|
| R _{th-jc} | Thermal resistance junction to case | 0.92 | /W |

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CHARACTERISTICS

T_j=25 unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|-----------------------|--------------------------------------|---|------|------|------|------|
| V _{CE0(SUS)} | Collector-emitter sustaining voltage | 2N6226 | -100 | | | V |
| | | 2N6227 | -120 | | | |
| | | 2N6228 | -140 | | | |
| V _{CEsat} | Collector-emitter saturation voltage | I _C =-4A; I _B =-0.4A | | | -1.2 | V |
| V _{BE} | Base-emitter on voltage | I _C =-3A; V _{CE} =-2V | | | -1.8 | V |
| I _{CEO} | Collector cut-off current | V _{CE} =Rated V _{CE0} ; I _B =0 | | | -5.0 | mA |
| I _{CBO} | Collector cut-off current | V _{CB} =Rated V _{CBO} ; I _E =0 | | | -1.0 | mA |
| I _{EBO} | Emitter cut-off current | V _{EB} =-7V; I _C =0 | | | -0.1 | mA |
| h _{FE} | DC current gain | 2N6226 | 25 | | 100 | |
| | | 2N6227 | 20 | | 80 | |
| | | 2N6228 | 15 | | 60 | |
| f _T | Transition frequency | I _C =-0.5A; V _{CE} =-4V | 1 | | | MHz |

