

Inchange Semiconductor

Product Specification

Silicon PNP Power Transistors

2N6226 2N6227 2N6228

DESCRIPTION

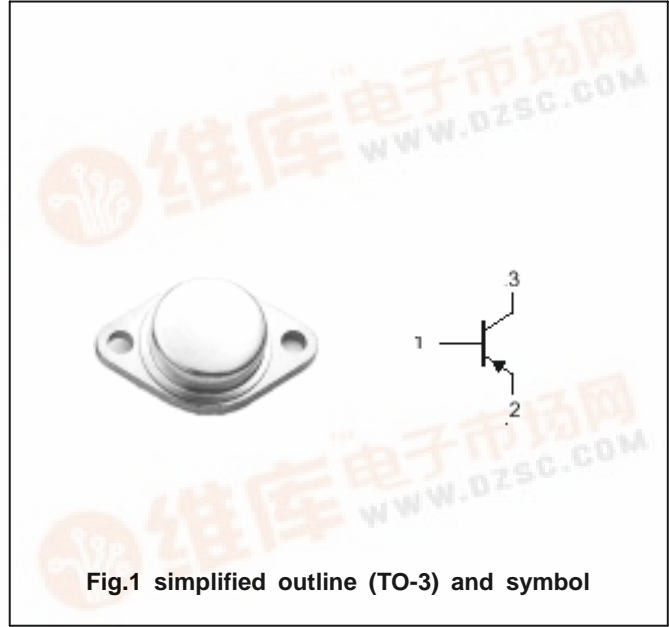
- With TO-3 package
- Low collector saturation voltage
- Excellent safe operating area

APPLICATIONS

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

PINNING

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



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 j-c} | 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 _{CEO(SUS)} | Collector-emitter sustaining voltage | 2N6226 | I _C =-0.2A ; I _B =0 | -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 _{CEO} ; 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 | I _C =-3A ; V _{CE} =-2V | 25 | | 100 | |
| | | 2N6227 | | 20 | | 80 | |
| | | 2N6228 | | 15 | | 60 | |
| f _T | Transition frequency | | I _C =-0.5A ; V _{CE} =-4V | 1 | | | MHz |

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PACKAGE OUTLINE

