SPTECH Silicon NPN Power Transistor

NJW3281G

DESCRIPTION

- With TO-3PN packaging
- Reliable performance at higher powers
- Accurate reproduction of Input signal
- Greater dynamic range
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

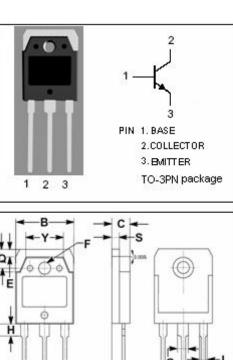
- Switching regulators
- · High frequency inverters
- · General purpose power amplifiers

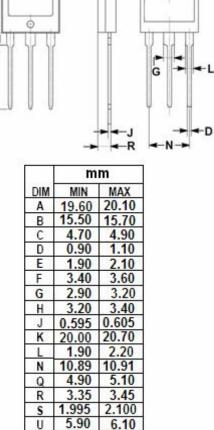
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

| SYMBOL | PARAMETER | VALUE | UNIT | |
|------------------|---|---------|------|--|
| V _{сво} | Collector-Base Voltage 250 | | V | |
| V _{CEO} | Collector-Emitter Voltage | 250 | V | |
| V _{CEX} | Collector-Emitter Voltage V _{EB} = 5V | 250 | V | |
| V _{EBO} | Emitter-Base Voltage | 5 | V | |
| Ic | Collector Current-Continuous | 15 | А | |
| I _{CM} | Collector Current-Peak | 30 | А | |
| IB | Base Current-Continuous | 1.6 | А | |
| Ρτ | Total Power Dissipation @ T _c =25℃ | 200 | W | |
| TJ | Junction Temperature | 150 | °C | |
| T _{stg} | Storage Temperature Range | -65~150 | °C | |

THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | МАХ | UNIT |
|---------------------|--------------------------------------|------|------|
| R _{th j-c} | Thermal Resistance, Junction to Case | 0.63 | °C/W |





9.90 | 10.10

Y

SPTECH website: www.superic-tech.com

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NJW3281G

ELECTRICAL CHARACTERISTICS

 $T_{\text{C}}\text{=}25^{\circ}\!\!\!\!\!\mathrm{C}$ unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | МАХ | UNIT |
|----------------------|--------------------------------------|---|-----|------|-----|------|
| VCEO(SUS) | Collector-Emitter Sustaining Voltage | I _C = 100mA; I _B = 0 | 250 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = 8A; I _B = 0.8A | | | 0.6 | V |
| V _{BE(on)} | Base-Emitter On Voltage | I _C = 8A;V _{CE} = 5V | | | 1.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = 250V | | | 50 | mA |
| I _{CEO} | Collector Cutoff Current | V _{CE} = 250V | | | 50 | mA |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = 5V | | | 5 | mA |
| h _{FE-1} | DC Current Gain | I _C = 0.1A; V _{CE} = 5V | 75 | | 150 | |
| h _{FE-2} | DC Current Gain | I _C = 1A; V _{CE} = 5V | 75 | | 150 | |
| h _{FE-3} | DC Current Gain | I _C = 3A; V _{CE} = 5V | 75 | | 150 | |
| h _{FE-4} | DC Current Gain | I _C = 5A; V _{CE} = 5V | 60 | | | |
| h _{FE-5} | DC Current Gain | I _C = 8A; V _{CE} = 5V | 45 | | | |

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