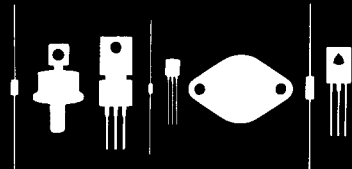


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145 Adams Avenue
Hauppauge, New York 11788



2N1479
2N1480
2N1481
2N1482

NPN SILICON TRANSISTOR

JEDEC TO-39 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N1479 series types are silicon NPN transistors manufactured by the epitaxial planar process, mounted in a hermetically sealed metal case designed for switching and amplifier applications.

MAXIMUM RATINGS ($T_C=25^\circ\text{C}$ unless otherwise noted)

| | SYMBOL | 2N1479 | 2N1480 | UNIT |
|--|-----------------------------------|-------------|--------|------|
| | | 2N1481 | 2N1482 | |
| Collector-Base Voltage | V _{CB0} | 60 | 100 | V |
| Collector-Emitter Voltage | V _{CEV} | 60 | 100 | V |
| Collector-Emitter Voltage | V _{CEO} | 40 | 55 | V |
| Emitter-Base Voltage | V _{EBO} | 6.0 | 6.0 | V |
| Collector Current | I _C | 1.5 | 1.5 | A |
| Base Current | I _B | 1.0 | 1.0 | A |
| Power Dissipation | P _D | 5.0 | 5.0 | W |
| Operating and Storage Junction Temperature | T _J , T _{STG} | -65 TO +200 | | °C |
| Thermal Resistance | θ _{JC} | 35 | | °C/W |

ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$ unless otherwise noted)

| SYMBOL | TEST CONDITIONS | 2N1479 | | 2N1480 | | 2N1481 | | 2N1482 | | UNIT |
|-----------------------|---|--------|---------|--------|---------|--------|---------|--------|---------|------|
| | | MIN | MAX | MIN | MAX | MIN | MAX | MIN | MAX | |
| I _{CB0} | V _{CB} =30V | | 10 | | 10 | | 10 | | 10 | μA |
| I _{CB0} | V _{CB} =30V, T _C =150°C | | 500 | | 500 | | 500 | | 500 | μA |
| I _{EBO} | V _{EB} =6.0V | | 10 | | 10 | | 10 | | 10 | μA |
| BV _{CEV} | V _{EB} =1.5V, I _C =0.25mA | 60 | | 100 | | 60 | | 100 | | V |
| BV _{CEO} | I _C =50mA | 40 | | 55 | | 40 | | 55 | | V |
| V _{CE} (SAT) | I _C =200mA, I _B =10mA | | - | | - | | 1.4 | | 1.4 | V |
| V _{CE} (SAT) | I _C =200mA, I _B =20mA | | 1.4 | | 1.4 | | - | | - | V |
| V _{BE} (ON) | V _{CE} =4.0V, I _C =200mA | | 3.0 | | 3.0 | | 3.0 | | 3.0 | V |
| h _{FE} | V _{CE} =4.0V, I _C =200mA | 20 | 60 | 20 | 60 | 35 | 100 | 35 | 100 | |
| h _{fe} | V _{CE} =4.0V, I _C =5.0mA | | 50 TYP | | 50 TYP | | 50 TYP | | 50 TYP | |
| t _{ON} | I _C =200mA, I _{B1} =20mA, I _{B2} =85mA | | 1.2 TYP | | 1.2 TYP | | 1.2 TYP | | 1.2 TYP | μs |
| t _{OFF} | I _C =200mA, I _{B1} =20mA, I _{B2} =85mA | | 1.6 TYP | | 1.6 TYP | | 1.6 TYP | | 1.6 TYP | μs |
| C _{ob} | V _{CB} =40V | | 150 TYP | | 150 TYP | | 150 TYP | | 150 TYP | pF |
| f _{αB} | V _{CB} =28V, I _C =5.0mA | | 1.5 TYP | | 1.5 TYP | | 1.5 TYP | | 1.5 TYP | MHz |

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- Custom product packing

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- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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