

2,000 V - 10,000 V Rectifiers

0.10 A - 0.5 A Forward Current

70 ns Recovery Time

1N6521 1N6523
1N6525 1N6527

AXIAL LEADED
HERMETICALLY SEALED
MIL-PRF-19500/576



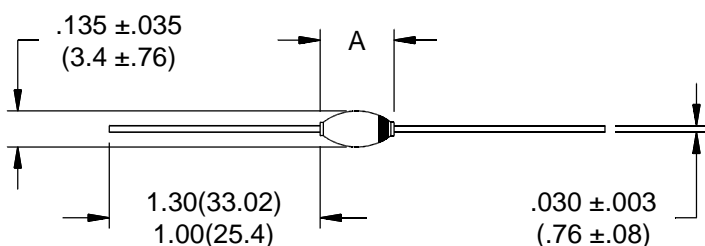
JANTX JANTXV

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ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage (Vrwm) Volts | Average Rectified Current (Io) | | Reverse Current @ Vrwm (Ir) | | Forward Voltage (Vf) | | 1 Cycle Surge Current tp=8.3ms (Ifsm) Amps | Repetitive Surge Current (Ifrm) Amps | Reverse Recovery Time (3) (Trr) ns | Thermal Impedance θ_{J-L} | | | Junction Cap. @50VDC @ 1kHz (Cj) pF |
|-------------|--|-----------------------------------|----------|--------------------------------|-------|-------------------------|------|---|--|---|-------------------------------------|------|------|---|
| | | 55°C(1) | 100°C(2) | 25°C | 100°C | 25°C | 25°C | | | | 25°C | 25°C | 25°C | |
| | | Amps | Amps | µA | µA | Volts | Amps | | | | Amps | °C/W | °C/W | |
| 1N6521 | 2000 | 0.500 | 0.250 | 0.5 | 20 | 3.0 | 0.50 | 25 | 5 | 70 | 5 | 12 | 21.5 | 8 |
| 1N6523 | 3000 | 0.250 | 0.125 | 0.5 | 20 | 5.0 | 0.25 | 15 | 3 | 70 | 5 | 12 | 21.5 | 4 |
| 1N6525 | 5000 | 0.150 | 0.075 | 0.5 | 20 | 7.0 | 0.15 | 10 | 2 | 70 | 5 | 12 | 21.5 | 3 |
| 1N6527 | 10000 | 0.100 | 0.050 | 0.5 | 20 | 12.0 | 0.10 | 5 | 1 | 70 | 5 | 12 | 21.5 | 2 |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=125mA, Ir=250mA, Irr=63mA • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



| Part | A |
|--------|------------------------------------|
| 1N6521 | .220(5.59) MAX. .160(4.06) MIN. |
| 1N6523 | .240(6.10) MAX. .180(4.57) MIN. |
| 1N6525 | .260(6.60) MAX. .200(5.08) MIN. |
| 1N6527 | .320(8.13) MAX. .260(6.60) MIN. |



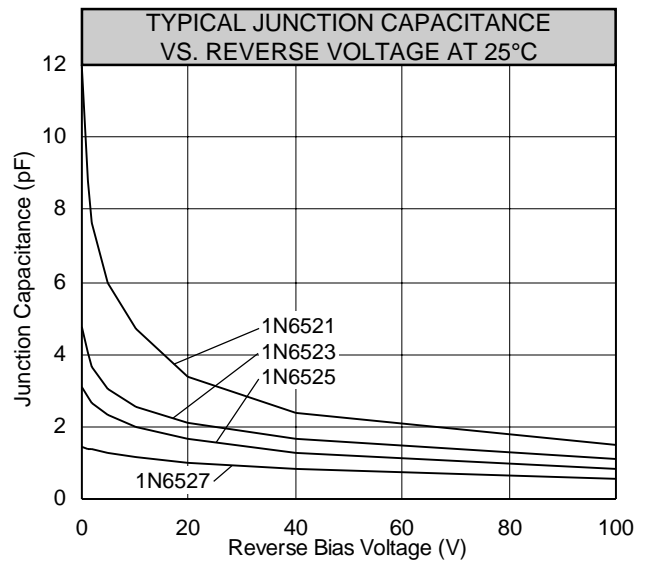
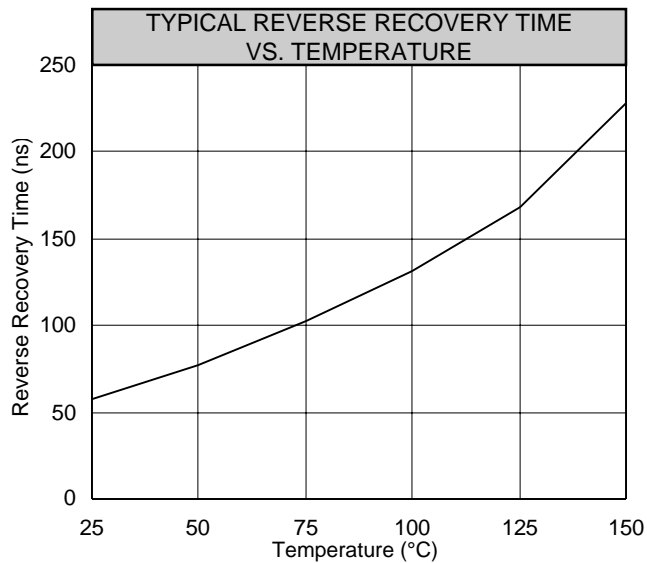
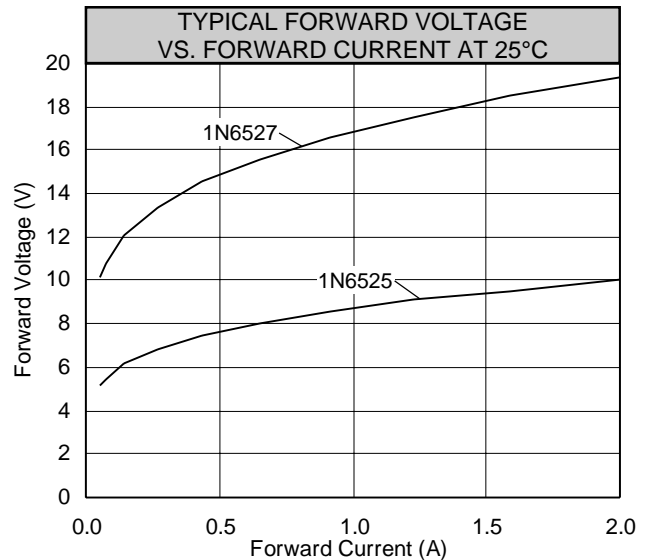
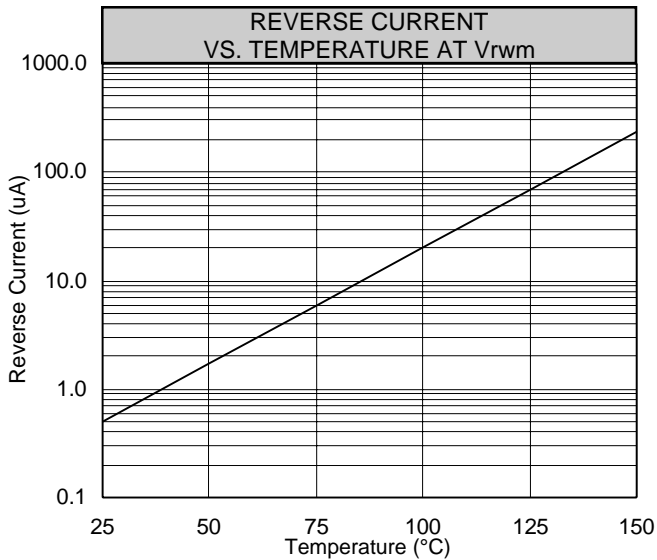
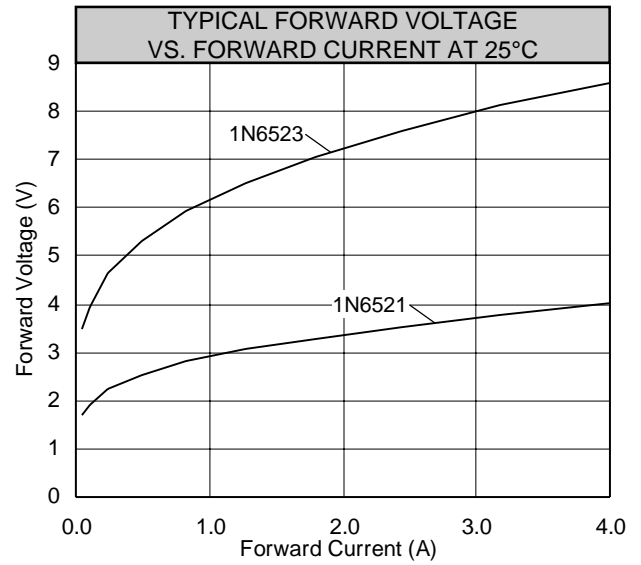
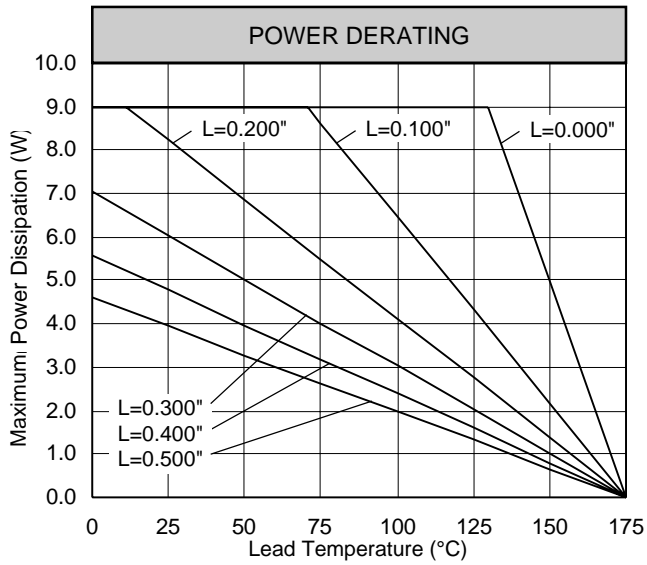
Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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1N6521 1N6523 1N6525 1N6527



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