

VOLTAGE RANGE: 3.3 - 240V

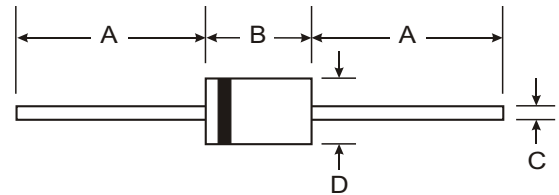
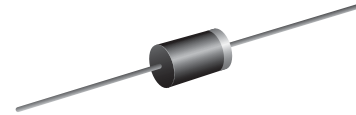
POWER: 1.5Watts

Features

- Complete Voltage Range 3.3 to 240 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

Mechanical Data

- Case: DO - 41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number



| DO-41 | | |
|----------------------|-------|-------|
| Dim | Min | Max |
| A | 25.40 | — |
| B | 4.06 | 5.21 |
| C | 0.71 | 0.864 |
| D | 2.00 | 2.72 |
| All Dimensions in mm | | |

Maximum Ratings @ T_A = 25°C unless otherwise specified

| Rating | Symbol | Value | Unit |
|--|------------------|---------------|-------|
| DC Power Dissipation at T _L = 75 °C (Note1) | PD | 1.5 | Watts |
| Maximum Forward Voltage at I _F = 200 mA | V _F | 1.5 | Volts |
| Maximum Thermal Resistance Junction to Ambient Air (Note2) | R _{θJA} | 130 | K / W |
| Junction Temperature Range | T _J | - 55 to + 175 | °C |
| Storage Temperature Range | T _s | - 55 to + 175 | °C |

Note:

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

| TYPE | Nominal Zener Voltage | | Maximum Zener Impedance | | | Maximum Reverse Leakage Current | | Maximum DC Zener Current |
|---------|----------------------------------|-----------------|-----------------------------------|-----------------------------------|-----------------|---------------------------------|-------|--------------------------|
| | V _Z @ I _{ZT} | I _{ZT} | Z _{ZT} @ I _{ZT} | Z _{ZK} @ I _{ZK} | I _{ZK} | I _R @ V _R | | I _{ZM} |
| | (V) | (mA) | (Ω) | (Ω) | (mA) | (μA) | (V) | (mA) |
| 1N5913A | 3.3 | 113.6 | 10 | 500 | 1.0 | 100 | 1.0 | 454 |
| 1N5914A | 3.6 | 104.2 | 9.0 | 500 | 1.0 | 75 | 1.0 | 416 |
| 1N5915A | 3.9 | 96.1 | 7.5 | 500 | 1.0 | 25 | 1.0 | 384 |
| 1N5916A | 4.3 | 87.2 | 6.0 | 500 | 1.0 | 5.0 | 1.0 | 348 |
| 1N5917A | 4.7 | 79.8 | 5.0 | 500 | 1.0 | 5.0 | 1.5 | 319 |
| 1N5918A | 5.1 | 73.5 | 4.0 | 500 | 1.0 | 5.0 | 2.0 | 294 |
| 1N5919A | 5.6 | 66.9 | 2.0 | 500 | 1.0 | 5.0 | 3.0 | 267 |
| 1N5920A | 6.2 | 60.5 | 2.0 | 200 | 1.0 | 5.0 | 4.0 | 241 |
| 1N5921A | 6.8 | 55.1 | 2.5 | 200 | 1.0 | 50 | 5.2 | 220 |
| 1N5922A | 7.5 | 50.0 | 3.0 | 400 | 0.5 | 50 | 6.0 | 200 |
| 1N5923A | 8.2 | 45.7 | 3.5 | 400 | 0.5 | 50 | 6.5 | 182 |
| 1N5924A | 9.1 | 41.2 | 4.0 | 500 | 0.5 | 50 | 7.0 | 164 |
| 1N5925A | 10 | 37.5 | 4.5 | 500 | 0.25 | 50 | 8.0 | 150 |
| 1N5926A | 11 | 34.1 | 5.5 | 550 | 0.25 | 50 | 8.4 | 136 |
| 1N5927A | 12 | 31.2 | 6.5 | 550 | 0.25 | 1.0 | 9.1 | 125 |
| 1N5928A | 13 | 28.8 | 7.0 | 550 | 0.25 | 1.0 | 9.9 | 115 |
| 1N5929A | 15 | 25.0 | 9.0 | 600 | 0.25 | 1.0 | 11.4 | 100 |
| 1N5930A | 16 | 23.4 | 10 | 600 | 0.25 | 1.0 | 12.2 | 93 |
| 1N5931A | 18 | 20.8 | 12 | 650 | 0.25 | 1.0 | 13.7 | 83 |
| 1N5932A | 20 | 18.7 | 14 | 650 | 0.25 | 1.0 | 15.2 | 75 |
| 1N5933A | 22 | 17.0 | 17.5 | 650 | 0.25 | 1.0 | 16.7 | 68 |
| 1N5934A | 24 | 15.6 | 19 | 700 | 0.25 | 1.0 | 18.2 | 62 |
| 1N5935A | 27 | 13.9 | 23 | 700 | 0.25 | 1.0 | 20.6 | 55 |
| 1N5936A | 30 | 12.5 | 26 | 750 | 0.25 | 1.0 | 22.8 | 50 |
| 1N5937A | 33 | 11.4 | 33 | 800 | 0.25 | 1.0 | 25.1 | 45 |
| 1N5938A | 36 | 10.4 | 38 | 850 | 0.25 | 1.0 | 27.4 | 41 |
| 1N5939A | 39 | 9.6 | 45 | 900 | 0.25 | 1.0 | 29.7 | 38 |
| 1N5940A | 43 | 8.7 | 53 | 950 | 0.25 | 1.0 | 32.7 | 34 |
| 1N5941A | 47 | 8.0 | 67 | 1000 | 0.25 | 1.0 | 35.8 | 31 |
| 1N5942A | 51 | 7.3 | 70 | 1100 | 0.25 | 1.0 | 38.8 | 29 |
| 1N5943A | 56 | 6.7 | 86 | 1300 | 0.25 | 1.0 | 42.6 | 26 |
| 1N5944A | 62 | 6.0 | 100 | 1500 | 0.25 | 1.0 | 47.1 | 24 |
| 1N5945A | 68 | 5.5 | 120 | 1700 | 0.25 | 1.0 | 51.7 | 22 |
| 1N5946A | 75 | 5.0 | 140 | 2000 | 0.25 | 1.0 | 56.0 | 20 |
| 1N5947A | 82 | 4.6 | 160 | 2500 | 0.25 | 1.0 | 62.2 | 18 |
| 1N5948A | 91 | 4.1 | 200 | 3000 | 0.25 | 1.0 | 69.2 | 16 |
| 1N5949A | 100 | 3.7 | 250 | 3100 | 0.25 | 1.0 | 76.0 | 15 |
| 1N5950A | 110 | 3.4 | 300 | 4000 | 0.25 | 1.0 | 83.6 | 13 |
| 1N5951A | 120 | 3.1 | 380 | 4500 | 0.25 | 1.0 | 91.2 | 12 |
| 1N5952A | 130 | 2.9 | 450 | 5000 | 0.25 | 1.0 | 98.8 | 11 |
| 1N5953A | 150 | 2.5 | 600 | 6000 | 0.25 | 1.0 | 114.0 | 10 |
| 1N5954A | 160 | 2.3 | 700 | 6500 | 0.25 | 1.0 | 121.6 | 9.0 |
| 1N5955A | 180 | 2.1 | 900 | 7000 | 0.25 | 1.0 | 136.8 | 8.0 |
| 1N5956A | 200 | 1.9 | 1200 | 8000 | 0.25 | 1.0 | 152.0 | 7.0 |
| 1N5957A | 240 | 1.5 | 1600 | 9000 | 0.25 | 1.0 | 182.4 | 6.0 |

Note :

(1) Suffix " A " indicates ± 10% tolerance, suffix " B " indicates ± 5.0% tolerance.

