

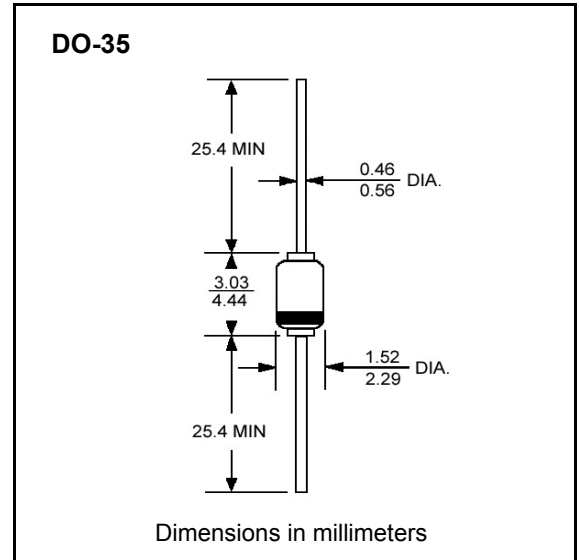
500mW 5% ZENER DIODE

Absolute Maximum Ratings (Ta= 25 °C)

| Items | Symbol | Ratings | Units |
|---|--------|------------|-------|
| Power Dissipation | P | 500 | mW |
| Junction Temp. | Tj | -65 to 175 | °C |
| Storage Temp. | Tstg | -65 to 175 | °C |
| Thermal Resistance Junction to Ambient | RthA | 0.3 | K/mW |
| Forward Voltage @IF= 100mA | VF | 1.0 | V |
| VZ Tolerance | | 5 | % |

Mechanical Characteristics

| Items | Materials |
|---------|---------------------------|
| Package | DO-35 |
| Case | Hermetically sealed glass |
| Chip | Passivated |



Electrical Characteristics (Ta= 25°C)

| Type No. | Zener Voltage | Test Curr. | Max Zener Impedance | | Max Reverse Leakage | | Temp. Coeff. | Max |
|------------|---------------|------------|---------------------|-----------------------|---------------------|--------|--------------|----------|
| | Vz @ Izt (V) | Izt (mA) | Zzt @ Izt (ohms) | Zzk @ Izk= 1mA (ohms) | IR (uA) | VR (V) | dvz (%/°C) | IzM (mA) |
| *BZX55C2V7 | 2.7 | 5 | 85 | 600 | 10 | 1.0 | -0.070 | 135 |
| *BZX55C3V0 | 3.0 | 5 | 85 | 600 | 4 | 1.0 | -0.070 | 125 |
| *BZX55C3V3 | 3.3 | 5 | 85 | 600 | 2 | 1.0 | -0.065 | 115 |
| *BZX55C3V6 | 3.6 | 5 | 85 | 600 | 2 | 1.0 | -0.060 | 105 |
| *BZX55C3V9 | 3.9 | 5 | 85 | 600 | 2 | 1.0 | -0.050 | 95 |
| *BZX55C4V3 | 4.3 | 5 | 75 | 600 | 1 | 1.0 | -0.025 | 90 |
| BZX55C4V7 | 4.7 | 5 | 60 | 600 | 0.5 | 1.0 | -0.010 | 85 |
| BZX55C5V1 | 5.1 | 5 | 35 | 550 | 0.1 | 1.0 | +0.015 | 80 |
| BZX55C5V7 | 5.6 | 5 | 25 | 450 | 0.1 | 1.0 | +0.025 | 70 |
| BZX55C6V2 | 6.2 | 5 | 10 | 200 | 0.1 | 2.0 | +0.035 | 64 |
| BZX55C6V8 | 6.8 | 5 | 8 | 150 | 0.1 | 3.0 | +0.045 | 58 |
| BZX55C7V5 | 7.5 | 5 | 7 | 50 | 0.1 | 5.0 | +0.050 | 53 |
| BZX55C8V2 | 8.2 | 5 | 7 | 50 | 0.1 | 6.0 | +0.050 | 47 |
| BZX55C9V1 | 9.1 | 5 | 10 | 50 | 0.1 | 7.0 | +0.060 | 43 |
| BZX55C10 | 10 | 5 | 15 | 70 | 0.1 | 7.5 | +0.070 | 40 |
| BZX55C11 | 11 | 5 | 20 | 70 | 0.1 | 8.5 | +0.070 | 36 |
| BZX55C12 | 12 | 5 | 20 | 90 | 0.1 | 9.0 | +0.070 | 32 |
| BZX55C13 | 13 | 5 | 26 | 110 | 0.1 | 10 | +0.070 | 29 |
| BZX55C15 | 15 | 5 | 30 | 110 | 0.1 | 11 | +0.070 | 27 |

*Call for availability on low voltage values below 4.7V.

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| Type No. | Zener Voltage | Test Curr. | Max Zener Impedance | | Max Reverse Leakage | | Temp. Coeff. | Max |
|----------|---------------|------------|---------------------|-----------------------|---------------------|--------|--------------|----------|
| | Vz @ Izt (V) | Izt (mA) | Zzt @ Izt (ohms) | Zzk @ Izk= 1mA (ohms) | IR (uA) | VR (V) | dvz (%/°C) | IzM (mA) |
| BZX55C16 | 16 | 5 | 40 | 170 | 0.1 | 12 | +0.070 | 24 |
| BZX55C18 | 18 | 5 | 50 | 170 | 0.1 | 14 | +0.070 | 21 |
| BZX55C20 | 20 | 5 | 55 | 220 | 0.1 | 15 | +0.070 | 20 |
| BZX55C22 | 22 | 5 | 55 | 220 | 0.1 | 17 | +0.070 | 18 |
| BZX55C24 | 24 | 5 | 80 | 220 | 0.1 | 18 | +0.080 | 16 |
| BZX55C27 | 27 | 5 | 80 | 220 | 0.1 | 20 | +0.080 | 14 |
| BZX55C30 | 30 | 5 | 80 | 220 | 0.1 | 22 | +0.080 | 13 |
| BZX55C33 | 33 | 5 | 80 | 220 | 0.1 | 24 | +0.080 | 12 |
| BZX55C36 | 36 | 5 | 80 | 220 | 0.1 | 27 | +0.080 | 11 |
| BZX55C39 | 39 | 2.5 | 90 | 500 | 0.1 | 30 | +0.080 | 10 |
| BZX55C43 | 43 | 2.5 | 90 | 600 | 0.1 | 33 | +0.080 | 9.2 |
| BZX55C47 | 47 | 2.5 | 110 | 700 | 0.1 | 36 | +0.080 | 8.5 |