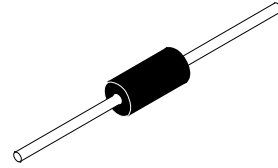


Zener Diodes

BZX79C2V4 - BZX79C18



AXIAL LEAD
CASE 017AG

ABSOLUTE MAXIMUM RATINGS (Note 1)

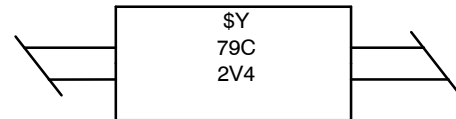
Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Symbol | Parameter | Value | Unit |
|----------------|--|-------------|----------------------|
| P_D | Power Dissipation @ $T_L \leq 75^\circ\text{C}$, Lead Length = 3/8" | 500 | mW |
| | Derate above 75°C | 4.0 | mW/ $^\circ\text{C}$ |
| T_J, T_{STG} | Operating and Storage Temperature Range | -65 to +200 | $^\circ\text{C}$ |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. These ratings are limiting values above which the serviceability of the diode may be impaired.

MARKING DIAGRAM



- \$Y = Logo
- 79C = Specific Device Code
- 2V4 = Specific Device Code

ORDERING INFORMATION

See detailed ordering and shipping information on page 3 of this data sheet.

BZX79C2V4 – BZX79C18

ELECTRICAL CHARACTERISTICS Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Device | Zener Voltage (Note 2) | | | $Z_Z @ I_Z (\Omega)$ | Leakage Current | | T_C (mV/C) | | C (pF) |
|-----------|------------------------|------|------------|----------------------|---------------------|-----------|--------------|------|-----------------------------------|
| | Min | Max | I_Z (mA) | Max | $I_R (\mu\text{A})$ | V_R (V) | Min | Max | $V_Z = 0,$ $f = 1 \text{ MHz}$ |
| BZX79C2V4 | 2.2 | 2.6 | 5 | 100 | 100 | 1 | -3.5 | 0 | 255 |
| BZX79C2V7 | 2.5 | 2.9 | 5 | 100 | 75 | 1 | -3.5 | 0 | 230 |
| BZX79C3V3 | 3.1 | 3.5 | 5 | 95 | 25 | 1 | -3.5 | 0 | 200 |
| BZX79C3V6 | 3.4 | 3.8 | 5 | 90 | 15 | 1 | -3.5 | 0 | 185 |
| BZX79C3V9 | 3.7 | 4.1 | 5 | 90 | 10 | 1 | -3.5 | +0.3 | 175 |
| BZX79C4V3 | 4.0 | 4.6 | 5 | 90 | 5 | 1 | -3.5 | +1.0 | 160 |
| BZX79C4V7 | 4.4 | 5 | 5 | 80 | 3 | 2 | -3.5 | +0.2 | 130 |
| BZX79C5V1 | 4.8 | 5.4 | 5 | 60 | 2 | 2 | -2.7 | +1.2 | 110 |
| BZX79C5V6 | 5.2 | 6 | 5 | 40 | 1 | 2 | -2 | +2.5 | 95 |
| BZX79C6V2 | 5.8 | 6.6 | 5 | 10 | 3 | 4 | 0.4 | 3.7 | 90 |
| BZX79C6V8 | 6.4 | 7.2 | 5 | 15 | 2 | 4 | 1.2 | 4.5 | 85 |
| BZX79C7V5 | 7.0 | 7.9 | 5 | 15 | 1 | 5 | 2.5 | 5.3 | 80 |
| BZX79C8V2 | 7.7 | 8.7 | 5 | 15 | 0.7 | 5 | 3.2 | 6.2 | 75 |
| BZX79C9V1 | 8.5 | 9.6 | 5 | 15 | 0.5 | 6 | 3.8 | 7 | 70 |
| BZX79C10 | 9.4 | 10.6 | 5 | 20 | 0.2 | 7 | 4.5 | 8 | 70 |
| BZX79C11 | 10.4 | 11.6 | 5 | 20 | 0.1 | 8 | 5.4 | 9 | 65 |
| BZX79C12 | 11.4 | 12.7 | 5 | 25 | 0.1 | 8 | 6 | 10 | 65 |
| BZX79C13 | 12.4 | 14.1 | 5 | 30 | 0.1 | 8 | 7 | 11 | 60 |
| BZX79C15 | 13.8 | 15.6 | 5 | 30 | 0.05 | 10.5 | 9.2 | 13 | 55 |
| BZX79C16 | 15.3 | 17.1 | 5 | 40 | 0.05 | 11.2 | 10.4 | 14 | 52 |
| BZX79C18 | 16.8 | 19.1 | 5 | 45 | 0.05 | 12.6 | 12.9 | 16 | 47 |

V_F Forward Voltage = 1.2 V Max. @ $I_F = 200 \text{ mA}$

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

2. Zener Voltage (V_Z). The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T_L) at $30^\circ\text{C} \pm 1^\circ\text{C}$ and 3/8" lead length.

MARKING INFORMATION

| Device | Line 1 | Line 2 | Line 3 |
|-----------|--------|--------|--------|
| BZX79C2V4 | LOGO | 9C | 2V4 |
| BZX79C2V7 | | | 2V7 |
| BZX79C3V3 | | | 3V3 |
| BZX79C3V6 | | | 3V6 |
| BZX79C3V9 | | | 3V9 |
| BZX79C4V3 | | | 4V3 |
| BZX79C4V7 | | | 4V7 |
| BZX79C5V1 | | | 5V1 |
| BZX79C5V6 | | | 5V6 |
| BZX79C6V2 | | | 6V2 |
| BZX79C6V8 | | | 6V8 |
| BZX79C7V5 | | | 7V5 |
| BZX79C8V2 | | | 8V2 |

BZX79C2V4 – BZX79C18

MARKING INFORMATION (continued)

| Device | Line 1 | Line 2 | Line 3 |
|-----------|--------|--------|--------|
| BZX79C9V1 | LOGO | 9C | 9V1 |
| BZX79C10 | | | 10 |
| BZX79C11 | | | 11 |
| BZX79C12 | | | 12 |
| BZX79C13 | | | 13 |
| BZX79C15 | | | 15 |
| BZX79C16 | | | 16 |
| BZX79C18 | | | 18 |

ORDERING INFORMATION

| Part Number | Package | Shipping [†] |
|----------------|------------|-----------------------|
| BZX79C10 | Axial Lead | 5000 / Bulk Bag |
| BZX79C10–T50A | | 5000 / Fan–Fold |
| BZX79C11 | | 5000 / Bulk Bag |
| BZX79C11–T50A | | 5000 / Fan–Fold |
| BZX79C12 | | 5000 / Bulk Bag |
| BZX79C12–T50A | | 5000 / Fan–Fold |
| BZX79C13–T50A | | 5000 / Fan–Fold |
| BZX79C15 | | 5000 / Bulk Bag |
| BZX79C15–T50A | | 5000 / Fan–Fold |
| BZX79C15–T50R | | 5000 / Tape & Reel |
| BZX79C16–T50A | | 5000 / Fan–Fold |
| BZX79C18–T50A | | 5000 / Fan–Fold |
| BZX79C2V4 | | 5000 / Bulk Bag |
| BZX79C2V4–T50A | | 5000 / Fan–Fold |
| BZX79C2V7 | | 5000 / Bulk Bag |
| BZX79C2V7–T50A | | 5000 / Fan–Fold |
| BZX79C3V3 | | 5000 / Bulk Bag |
| BZX79C3V3–T50A | | 5000 / Fan–Fold |
| BZX79C3V6 | | 5000 / Bulk Bag |
| BZX79C3V6–T50A | | 5000 / Fan–Fold |
| BZX79C3V9 | | 5000 / Bulk Bag |
| BZX79C3V9–T50A | | 5000 / Fan–Fold |
| BZX79C4V3 | | 5000 / Bulk Bag |
| BZX79C4V3–T50A | | 5000 / Fan–Fold |
| BZX79C4V7 | | 5000 / Bulk Bag |
| BZX79C4V7–T50A | | 5000 / Fan–Fold |
| BZX79C5V1 | | 5000 / Bulk Bag |
| BZX79C5V1–T50A | | 5000 / Fan–Fold |
| BZX79C5V6 | | 5000 / Bulk Bag |
| BZX79C5V6–T50A | | 5000 / Fan–Fold |
| BZX79C5V6TR | | 5000 / Tape & Reel |

BZX79C2V4 – BZX79C18

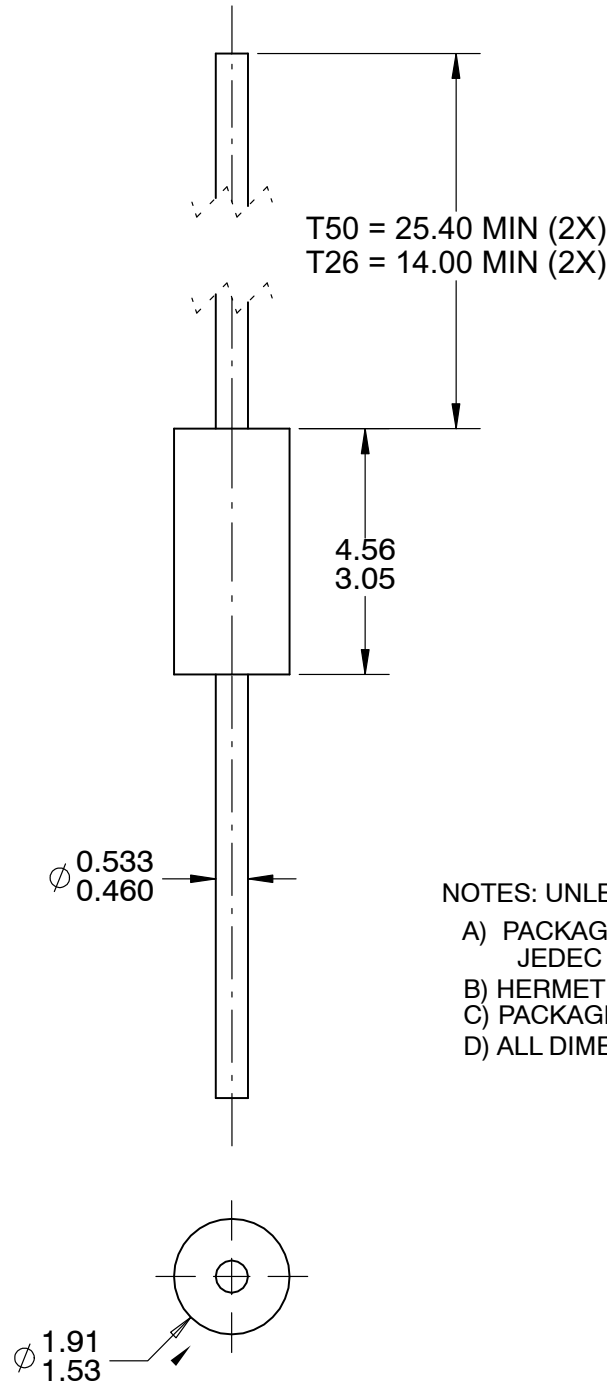
ORDERING INFORMATION (continued)

| Part Number | Package | Shipping† |
|----------------|------------|--------------------|
| BZX79C6V2 | Axial Lead | 5000 / Bulk Bag |
| BZX79C6V2-T50A | | 5000 / Fan-Fold |
| BZX79C6V2-T50R | | 5000 / Tape & Reel |
| BZX79C6V8 | | 5000 / Bulk Bag |
| BZX79C6V8-T50A | | 5000 / Fan-Fold |
| BZX79C7V5-T50A | | 5000 / Fan-Fold |
| BZX79C8V2 | | 5000 / Bulk Bag |
| BZX79C8V2-T50A | | 5000 / Fan-Fold |
| BZX79C9V1 | | 5000 / Bulk Bag |
| BZX79C9V1-T50A | | 5000 / Fan-Fold |

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

AXIAL LEAD
CASE 017AG
ISSUE 0

DATE 31 AUG 2016



- NOTES: UNLESS OTHERWISE SPECIFIED
- A) PACKAGE STANDARD REFERENCE: JEDEC DO-204, VARIATION AH.
 - B) HERMETICALLY SEALED GLASS PACKAGE.
 - C) PACKAGE WEIGHT IS 0.137 GRAM.
 - D) ALL DIMENSIONS ARE IN MILLIMETERS.

| | | |
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