

- ZENER DIODES
- LEADLESS PACKAGE FOR SURFACE MOUNT
- DOUBLE PLUG CONSTRUCTION
- METALLURGICALLY BONDED

**BZV55 C2V4
thru
BZV55 C75**

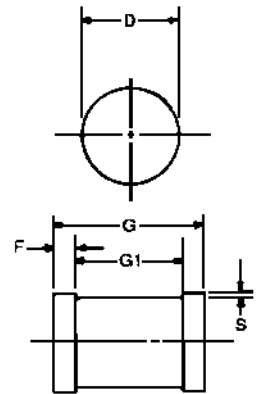
MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
 Storage Temperature: -65°C to +175°C
 Power Derating: 3.33 mW / °C above +50°C
 Forward Voltage: @ 200mA: 1.1 Volts maximum

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

| TYPE | ZENER VOLTAGE (NOTE 1) V _Z @ I _{ZT} | | | MAXIMUM DIFFERENTIAL RESISTANCE r _{diff} @ I _Z | | MAXIMUM REVERSE CURRENT I _R @ V _R | |
|------------|---|------|----|---|----|--|-------|
| | VOLTS | | mA | OHMS | mA | μA | VOLTS |
| | MIN | MAX | | | | | |
| BZV55 C2V4 | 2.2 | 2.6 | 5 | 100 | 5 | 50 | 1 |
| BZV55 C2V7 | 2.5 | 2.9 | 5 | 100 | 5 | 20 | 1 |
| BZV55 C3V0 | 2.8 | 3.2 | 5 | 95 | 5 | 10 | 1 |
| BZV55 C3V3 | 3.1 | 3.5 | 5 | 95 | 5 | 5 | 1 |
| BZV55 C3V6 | 3.4 | 3.8 | 5 | 90 | 5 | 5 | 1 |
| BZV55 C3V9 | 3.7 | 4.1 | 5 | 90 | 5 | 3 | 1 |
| BZV55 C4V3 | 4.0 | 4.6 | 5 | 90 | 5 | 3 | 1 |
| BZV55 C4V7 | 4.4 | 5.0 | 5 | 80 | 5 | 3 | 2 |
| BZV55 C5V1 | 4.8 | 5.4 | 5 | 60 | 5 | 2 | 2 |
| BZV55 C5V6 | 5.2 | 6.0 | 5 | 40 | 5 | 1 | 2 |
| BZV55 C6V2 | 5.8 | 6.6 | 5 | 10 | 5 | 3 | 4 |
| BZV55 C6V8 | 6.4 | 7.2 | 5 | 15 | 5 | 2 | 4 |
| BZV55 C7V5 | 7.0 | 7.9 | 5 | 15 | 5 | 1 | 5 |
| BZV55 C8V2 | 7.7 | 8.7 | 5 | 15 | 5 | .700 | 5 |
| BZV55 C9V1 | 8.5 | 9.6 | 5 | 15 | 5 | .500 | 6 |
| BZV55 C10 | 9.4 | 10.6 | 5 | 20 | 5 | .200 | 7 |
| BZV55 C11 | 10.4 | 11.6 | 5 | 20 | 5 | .100 | 8 |
| BZV55 C12 | 11.4 | 12.7 | 5 | 25 | 5 | .100 | 8 |
| BZV55 C13 | 12.4 | 14.1 | 5 | 30 | 5 | .100 | 8 |
| BZV55 C15 | 13.8 | 15.6 | 5 | 30 | 5 | .050 | 10.5 |
| BZV55 C16 | 15.3 | 17.1 | 5 | 40 | 5 | .050 | 11.2 |
| BZV55 C18 | 16.8 | 19.1 | 5 | 45 | 5 | .050 | 12.6 |
| BZV55 C20 | 18.8 | 21.2 | 5 | 55 | 5 | .050 | 14.0 |
| BZV55 C22 | 20.8 | 23.3 | 5 | 55 | 5 | .050 | 15.4 |
| BZV55 C24 | 22.8 | 25.6 | 5 | 70 | 5 | .050 | 16.8 |
| BZV55 C27 | 25.1 | 28.9 | 2 | 80 | 2 | .050 | 18.9 |
| BZV55 C30 | 28.0 | 32.0 | 2 | 80 | 2 | .050 | 21.0 |
| BZV55 C33 | 31.0 | 35.0 | 2 | 80 | 2 | .050 | 23.1 |
| BZV55 C36 | 34.0 | 38.0 | 2 | 90 | 2 | .050 | 25.2 |
| BZV55 C39 | 37.0 | 41.0 | 2 | 130 | 2 | .050 | 27.3 |
| BZV55 C43 | 40.0 | 46.0 | 2 | 150 | 2 | .050 | 30.1 |
| BZV55 C47 | 44.0 | 50.0 | 2 | 170 | 2 | .050 | 32.9 |
| BZV55 C51 | 48.0 | 54.0 | 2 | 180 | 2 | .050 | 35.7 |
| BZV55 C56 | 52.0 | 60.0 | 2 | 200 | 2 | .050 | 39.2 |
| BZV55 C62 | 58.0 | 66.0 | 2 | 215 | 2 | .050 | 43.4 |
| BZV55 C68 | 64.0 | 72.0 | 2 | 240 | 2 | .050 | 47.6 |
| BZV55 C75 | 70.0 | 79.0 | 2 | 255 | 2 | .050 | 52.2 |

NOTE 1 Nominal Zener voltage is measured with the device junction in thermal equilibrium at an ambient temperature of 25°C ± 3°C.



| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| D | 1.60 | 1.70 | 0.063 | 0.067 |
| F | 0.41 | 0.55 | 0.016 | 0.022 |
| G | 3.30 | 3.70 | .130 | .146 |
| G1 | 2.54 REF. | 3.70 | .100 REF. | |
| S | 0.03 MIN. | | .001 MIN. | |

DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: (R_{ΘJEC}): 100 °C/W maximum at L = 0 inch

THERMAL IMPEDANCE: (Z_{ΘJX}): 35 °C/W maximum

POLARITY: Diode to be operated with the banded (cathode) end positive.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.



COMPENSATED DEVICES INCORPORATED

22 COREY STREET, MELROSE, MASSACHUSETTS 02176
 PHONE (781) 665-1071 FAX (781) 665-7379
 WEBSITE: <http://www.cdi-diodes.com> E-mail: mail@cdi-diodes.com