

**CMOZ2L4 THRU CMOZ43L**

**ULTRAmi<sup>TM</sup>**  
**LOW LEVEL ZENER DIODE**  
**2.4 VOLTS THRU 43 VOLTS**  
**350mW, 5% TOLERANCE**

**ULTRAmi<sup>TM</sup>**



**SOD-523 CASE**

**Central<sup>TM</sup>**  
**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMOZ2L4 Series Low Level Zener Diode is a high quality voltage regulator in an epoxy-molded ULTRAmi<sup>TM</sup> package, designed for applications requiring an extremely low operating current and low leakage.

**ABSOLUTE MAXIMUM RATINGS:**

Power Dissipation (@T<sub>A</sub> =50°C)  
 Operating and Storage Temperature

**SYMBOL**

P<sub>D</sub>  
 T<sub>J</sub>, T<sub>stg</sub>

350  
 -65 to +175

**UNIT**

mW  
 °C

**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C), V<sub>F</sub>=0.9 MAX @ I<sub>F</sub>=10mA FOR ALL TYPES.

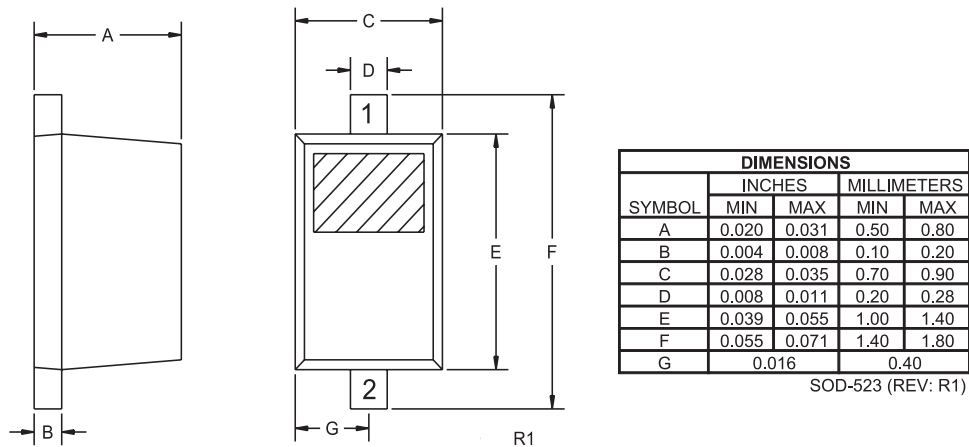
| TYPE    | ZENER VOLTAGE<br>V <sub>Z</sub> @ I <sub>ZT</sub> |       |       | TEST CURRENT    | MAXIMUM ZENER IMPEDANCE           | MAXIMUM REVERSE CURRENT |                  | MARKING CODE |
|---------|---------------------------------------------------|-------|-------|-----------------|-----------------------------------|-------------------------|------------------|--------------|
|         | MIN                                               | NOM   | MAX   | I <sub>ZT</sub> | Z <sub>VT</sub> @ I <sub>ZT</sub> | I <sub>R</sub>          | @ V <sub>R</sub> |              |
|         | VOLTS                                             | VOLTS | VOLTS | µA              | Ω                                 | µA                      | VOLTS            |              |
| CMOZ2L4 | 2.28                                              | 2.4   | 2.52  | 250             | 1400                              | 25                      | 1.0              | M1           |
| CMOZ2L5 | 2.37                                              | 2.5   | 2.63  | 250             | 1500                              | 10                      | 1.0              | M2           |
| CMOZ2L7 | 2.57                                              | 2.7   | 2.84  | 250             | 1500                              | 5.0                     | 1.0              | M3           |
| CMOZ3L0 | 2.85                                              | 3.0   | 3.15  | 250             | 1600                              | 5.0                     | 1.0              | M30          |
| CMOZ3L3 | 3.14                                              | 3.3   | 3.47  | 250             | 1600                              | 5.0                     | 1.0              | M4           |
| CMOZ3L6 | 3.42                                              | 3.6   | 3.78  | 250             | 1700                              | 5.0                     | 1.0              | M5           |
| CMOZ3L9 | 3.71                                              | 3.9   | 4.10  | 250             | 1600                              | 5.0                     | 1.0              | M6           |
| CMOZ4L3 | 4.09                                              | 4.3   | 4.52  | 250             | 1600                              | 1.0                     | 1.5              | M7           |
| CMOZ4L7 | 4.47                                              | 4.7   | 4.94  | 250             | 1500                              | 1.0                     | 1.5              | M8           |
| CMOZ5L1 | 4.85                                              | 5.1   | 5.36  | 250             | 1500                              | 1.0                     | 1.5              | M9           |
| CMOZ5L6 | 5.32                                              | 5.6   | 5.88  | 250             | 1400                              | 1.0                     | 2.0              | M0           |
| CMOZ6L2 | 5.89                                              | 6.2   | 6.51  | 250             | 1200                              | 1.0                     | 2.0              | N1           |
| CMOZ6L8 | 6.46                                              | 6.8   | 7.14  | 250             | 200                               | 1.0                     | 3.5              | N2           |
| CMOZ7L5 | 7.12                                              | 7.5   | 7.88  | 250             | 200                               | 1.0                     | 3.5              | N3           |
| CMOZ8L2 | 7.79                                              | 8.2   | 8.61  | 250             | 200                               | 1.0                     | 6.0              | N4           |
| CMOZ9L1 | 8.65                                              | 9.1   | 9.56  | 250             | 200                               | 1.0                     | 6.0              | N5           |
| CMOZ10L | 9.50                                              | 10    | 10.50 | 250             | 200                               | 1.0                     | 8.0              | N6           |
| CMOZ11L | 10.45                                             | 11    | 11.55 | 250             | 200                               | 1.0                     | 8.0              | N7           |
| CMOZ12L | 11.40                                             | 12    | 12.60 | 250             | 200                               | 1.0                     | 10.5             | N8           |
| CMOZ13L | 12.35                                             | 13    | 13.65 | 250             | 200                               | 1.0                     | 10.5             | N9           |
| CMOZ15L | 14.25                                             | 15    | 15.75 | 250             | 100                               | 1.0                     | 11.5             | N0           |

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ELECTRICAL CHARACTERISTICS (CONTINUED):

| TYPE    | ZENER<br>VOLTAGE<br>V <sub>Z</sub> @ I <sub>ZT</sub> |       |       | TEST<br>CURRENT | MAXIMUM<br>ZENER<br>IMPEDANCE     | MAXIMUM<br>REVERSE<br>CURRENT   |       | MARKING<br>CODE |
|---------|------------------------------------------------------|-------|-------|-----------------|-----------------------------------|---------------------------------|-------|-----------------|
|         | MIN                                                  | NOM   | MAX   | I <sub>ZT</sub> | Z <sub>ZT</sub> @ I <sub>ZT</sub> | I <sub>R</sub> @ V <sub>R</sub> |       |                 |
|         | VOLTS                                                | VOLTS | VOLTS | μA              | Ω                                 | μA                              | VOLTS |                 |
| CMOZ16L | 15.20                                                | 16    | 16.80 | 250             | 100                               | 1.0                             | 14    | P1              |
| CMOZ18L | 17.10                                                | 18    | 18.90 | 250             | 100                               | 1.0                             | 16    | P2              |
| CMOZ20L | 19.00                                                | 20    | 21.00 | 250             | 150                               | 1.0                             | 18    | P3              |
| CMOZ22L | 20.90                                                | 22    | 23.10 | 250             | 150                               | 1.0                             | 20    | P4              |
| CMOZ24L | 22.80                                                | 24    | 25.20 | 250             | 150                               | 1.0                             | 22    | P5              |
| CMOZ27L | 25.65                                                | 27    | 28.35 | 250             | 150                               | 1.0                             | 24    | P6              |
| CMOZ30L | 28.50                                                | 30    | 31.50 | 250             | 200                               | 1.0                             | 27    | P7              |
| CMOZ33L | 31.35                                                | 33    | 34.65 | 250             | 250                               | 1.0                             | 30    | P8              |
| CMOZ36L | 34.20                                                | 36    | 37.80 | 250             | 200                               | 1.0                             | 33    | P9              |
| CMOZ39L | 37.05                                                | 39    | 40.95 | 250             | 200                               | 1.0                             | 36    | P0              |
| CMOZ43L | 40.85                                                | 43    | 45.15 | 250             | 250                               | 1.0                             | 40    | R1              |

SOD-523 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

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