

**CMPZ4614  
THRU  
CMPZ4627**

**SURFACE MOUNT  
LOW NOISE  
SILICON ZENER DIODE  
350mW, 5% TOLERANCE**



[www.centralemi.com](http://www.centralemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMPZ4614 Series types are high quality silicon zener diodes designed for low leakage, low current and low noise applications.

**MARKING CODE: CONSULT FACTORY**



**SOT-23 CASE**

**MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Power Dissipation

Operating and Storage Junction Temperature

**SYMBOL**

$P_D$

$T_J, T_{stg}$

350

-65 to +150

**UNITS**

mW

$^{\circ}\text{C}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)  $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$  (for all types)

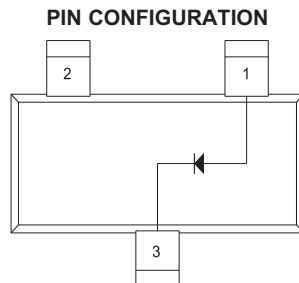
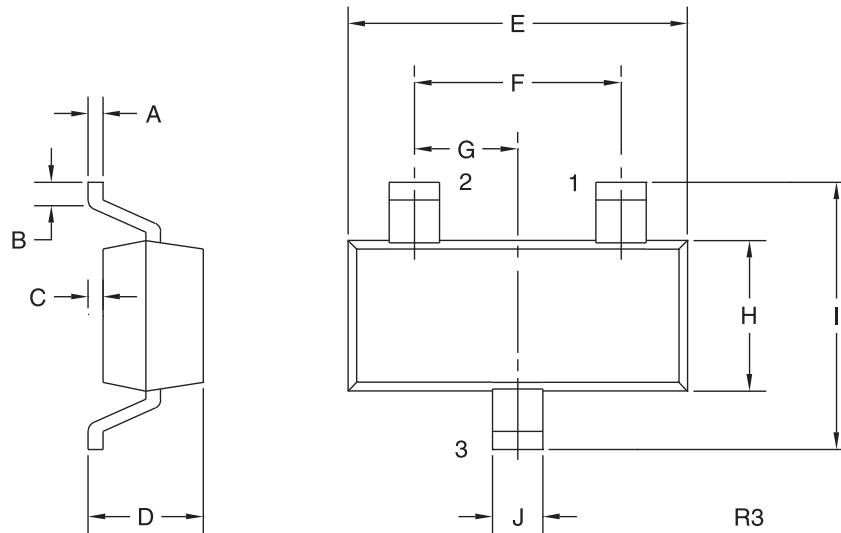
| TYPE     | NOMINAL<br>ZENER<br>VOLTAGE<br>$V_Z @ I_{ZT}$ | TEST<br>CURRENT<br>$I_{ZT}$ | MAXIMUM<br>ZENER<br>IMPEDANCE<br>$Z_{ZT} @ I_{ZT}$ | MAXIMUM REVERSE<br>LEAKAGE CURRENT |              | MAXIMUM<br>ZENER<br>CURRENT<br>$I_{ZM}$ | MAXIMUM<br>NOISE DENSITY<br>$N_D @ I_{ZT}$ |
|----------|-----------------------------------------------|-----------------------------|----------------------------------------------------|------------------------------------|--------------|-----------------------------------------|--------------------------------------------|
|          | V                                             | $\mu\text{A}$               | $\Omega$                                           | $I_R$<br>$\mu\text{A}$             | @ $V_R$<br>V | mA                                      | $\mu\text{V}/\sqrt{\text{Hz}}$             |
| CMPZ4614 | 1.8                                           | 250                         | 1200                                               | 7.5                                | 1.0          | 120                                     | 1.0                                        |
| CMPZ4615 | 2.0                                           | 250                         | 1250                                               | 5.0                                | 1.0          | 110                                     | 1.0                                        |
| CMPZ4616 | 2.2                                           | 250                         | 1300                                               | 4.0                                | 1.0          | 100                                     | 1.0                                        |
| CMPZ4617 | 2.4                                           | 250                         | 1400                                               | 2.0                                | 1.0          | 95                                      | 1.0                                        |
| CMPZ4618 | 2.7                                           | 250                         | 1500                                               | 1.0                                | 1.0          | 90                                      | 1.0                                        |
| CMPZ4619 | 3.0                                           | 250                         | 1600                                               | 0.8                                | 1.0          | 85                                      | 1.0                                        |
| CMPZ4620 | 3.3                                           | 250                         | 1650                                               | 7.5                                | 1.5          | 80                                      | 1.0                                        |
| CMPZ4621 | 3.6                                           | 250                         | 1700                                               | 7.5                                | 2.0          | 75                                      | 1.0                                        |
| CMPZ4622 | 3.9                                           | 250                         | 1650                                               | 5.0                                | 2.0          | 70                                      | 1.0                                        |
| CMPZ4623 | 4.3                                           | 250                         | 1600                                               | 4.0                                | 2.0          | 65                                      | 1.0                                        |
| CMPZ4624 | 4.7                                           | 250                         | 1550                                               | 10                                 | 3.0          | 60                                      | 1.0                                        |
| CMPZ4625 | 5.1                                           | 250                         | 1500                                               | 10                                 | 3.0          | 55                                      | 2.0                                        |
| CMPZ4626 | 5.6                                           | 250                         | 1400                                               | 10                                 | 4.0          | 50                                      | 4.0                                        |
| CMPZ4627 | 6.2                                           | 250                         | 1200                                               | 10                                 | 5.0          | 45                                      | 5.0                                        |

R7 (3-February 2010)

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# SOT-23 CASE - MECHANICAL OUTLINE



## LEAD CODE:

- 1) Anode
- 2) No Connection
- 3) Cathode

**MARKING CODE:**  
CONSULT FACTORY

| SYMBOL | DIMENSIONS |       |             |      |
|--------|------------|-------|-------------|------|
|        | INCHES     |       | MILLIMETERS |      |
|        | MIN        | MAX   | MIN         | MAX  |
| A      | 0.003      | 0.007 | 0.08        | 0.18 |
| B      | 0.006      | -     | 0.15        | -    |
| C      | -          | 0.005 | -           | 0.13 |
| D      | 0.035      | 0.043 | 0.89        | 1.09 |
| E      | 0.110      | 0.120 | 2.80        | 3.05 |
| F      | 0.075      |       | 1.90        |      |
| G      | 0.037      |       | 0.95        |      |
| H      | 0.047      | 0.055 | 1.19        | 1.40 |
| I      | 0.083      | 0.098 | 2.10        | 2.49 |
| J      | 0.014      | 0.020 | 0.35        | 0.50 |

SOT-23 (REV: R3)

R7 (3-February 2010)