

## SMD Type

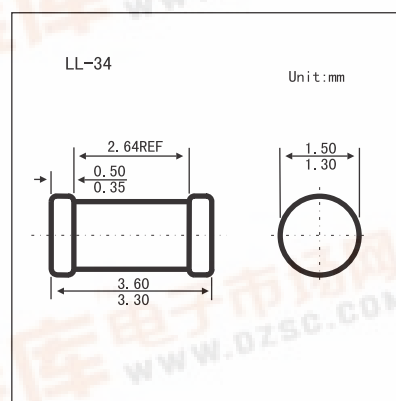
## Diodes

## Zener Diodes

## RLZ Series

## ■ Features

- Small surface mounting type.
- High reliability.



## ■ Absolute Maximum Ratings (Ta = 25℃)

| Parameter            | Symbol           | Rating      | Unit |
|----------------------|------------------|-------------|------|
| Power dissipation    | P                | 500         | mW   |
| Junction temperature | T <sub>j</sub>   | 175         | ℃    |
| Storage temperature  | T <sub>stg</sub> | -65 to +175 | ℃    |

## ■ Electrical Characteristics (Ta = 25℃)

| Type    | Zener voltage<br>V <sub>Z</sub> (V) |       |                     | Operating resistance<br>Z <sub>Z</sub> (Ω) |                     | Rising operating<br>resistance Z <sub>ZK</sub> (Ω) |                     | Reverse current<br>I <sub>R</sub> (μA) |                    |
|---------|-------------------------------------|-------|---------------------|--------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------|--------------------|
|         | Min.                                | Max.  | I <sub>Z</sub> (mA) | Max.                                       | I <sub>Z</sub> (mA) | Max.                                               | I <sub>Z</sub> (mA) | Max.                                   | V <sub>R</sub> (V) |
| RLZ3.6B | 3.600                               | 3.845 | 20                  | 60                                         | 20                  | 1000                                               | 1                   | 10                                     | 1.0                |
| RLZ3.9B | 3.89                                | 4.16  | 20                  | 50                                         | 20                  | 1000                                               | 1                   | 5                                      | 1.0                |
| RLZ4.3B | 4.17                                | 4.43  | 20                  | 40                                         | 20                  | 1000                                               | 1                   | 5                                      | 1.0                |
| RLZ4.7B | 4.55                                | 4.80  | 20                  | 25                                         | 20                  | 900                                                | 1                   | 5                                      | 1.0                |
| RLZ5.1B | 4.94                                | 5.20  | 20                  | 20                                         | 20                  | 800                                                | 1                   | 5                                      | 1.5                |
| RLZ5.6B | 5.45                                | 5.73  | 20                  | 13                                         | 20                  | 500                                                | 1                   | 5                                      | 2.5                |
| RLZ6.2B | 5.96                                | 6.27  | 20                  | 10                                         | 20                  | 300                                                | 1                   | 5                                      | 3.0                |
| RLZ6.8B | 6.49                                | 6.83  | 20                  | 8                                          | 20                  | 150                                                | 0.5                 | 2                                      | 3.5                |
| RLZ7.5B | 7.07                                | 7.45  | 20                  | 8                                          | 20                  | 120                                                | 0.5                 | 0.5                                    | 4.0                |
| RLZ8.2B | 7.78                                | 8.19  | 20                  | 8                                          | 20                  | 120                                                | 0.5                 | 0.5                                    | 5.0                |
| RLZ9.1B | 8.57                                | 9.01  | 20                  | 8                                          | 20                  | 120                                                | 0.5                 | 0.5                                    | 6.0                |
| RLZ10B  | 9.41                                | 9.90  | 20                  | 8                                          | 20                  | 120                                                | 0.5                 | 0.2                                    | 7.0                |
| RLZ11B  | 10.50                               | 11.05 | 10                  | 10                                         | 10                  | 120                                                | 0.5                 | 0.2                                    | 8.0                |
| RLZ12B  | 11.44                               | 12.03 | 10                  | 12                                         | 10                  | 110                                                | 0.5                 | 0.2                                    | 9.0                |

## RLZ Series

## ■ Electrical Characteristics (Ta = 25°C)

| Type   | Zener voltage<br>V <sub>Z</sub> (V) |       |                     | Operating resistance<br>Z <sub>Z</sub> (Ω) |                     | Rising operating<br>resistance Z <sub>ZK</sub> (Ω) |                     | Reverse current<br>I <sub>R</sub> (μA) |                    |
|--------|-------------------------------------|-------|---------------------|--------------------------------------------|---------------------|----------------------------------------------------|---------------------|----------------------------------------|--------------------|
|        | Min.                                | Max.  | I <sub>Z</sub> (mA) | Max.                                       | I <sub>Z</sub> (mA) | Max.                                               | I <sub>Z</sub> (mA) | Max.                                   | V <sub>R</sub> (V) |
| RLZ13B | 12.55                               | 13.21 | 10                  | 14                                         | 10                  | 110                                                | 0.5                 | 0.2                                    | 10                 |
| RLZ15B | 13.89                               | 14.62 | 10                  | 16                                         | 10                  | 110                                                | 0.5                 | 0.2                                    | 11                 |
| RLZ16B | 15.25                               | 16.04 | 10                  | 18                                         | 10                  | 150                                                | 0.5                 | 0.2                                    | 12                 |
| RLZ18B | 16.82                               | 17.70 | 10                  | 23                                         | 10                  | 150                                                | 0.5                 | 0.2                                    | 13                 |
| RLZ20B | 18.63                               | 19.59 | 10                  | 28                                         | 10                  | 200                                                | 0.5                 | 0.2                                    | 15                 |
| RLZ22B | 20.64                               | 21.71 | 5                   | 30                                         | 5                   | 200                                                | 0.5                 | 0.2                                    | 17                 |
| RLZ24B | 22.61                               | 23.77 | 5                   | 35                                         | 5                   | 200                                                | 0.5                 | 0.2                                    | 19                 |
| RLZ27B | 24.97                               | 26.26 | 5                   | 45                                         | 5                   | 250                                                | 0.5                 | 0.2                                    | 21                 |
| RLZ30B | 27.70                               | 29.13 | 5                   | 55                                         | 5                   | 250                                                | 0.5                 | 0.2                                    | 23                 |
| RLZ33B | 30.32                               | 31.88 | 5                   | 65                                         | 5                   | 250                                                | 0.5                 | 0.2                                    | 25                 |
| RLZ36B | 32.79                               | 34.49 | 5                   | 75                                         | 5                   | 250                                                | 0.5                 | 0.2                                    | 27                 |
| RLZ39B | 35.36                               | 37.19 | 5                   | 85                                         | 5                   | 250                                                | 0.5                 | 0.2                                    | 30                 |

\* The zener voltage is measured 40ms after power is supplied.