

RLZ J Series

シリコンエピタキシャルプレーナ形 400mW 定電圧リードレスダイオード Silicon Epitaxial Planar 400mW Zener Leadless Diodes

● 特長

- 1) 高信頼度である。
- 2) 超小型である。
- 3) 面装着が可能。
- 4) V_Z 公称値は E24 シリーズを採用している。

● Features

- 1) High reliability.
- 2) Ultra-compact.
- 3) Flat mounting feasible.
- 4) For nominal V_Z , E24 series are employed.

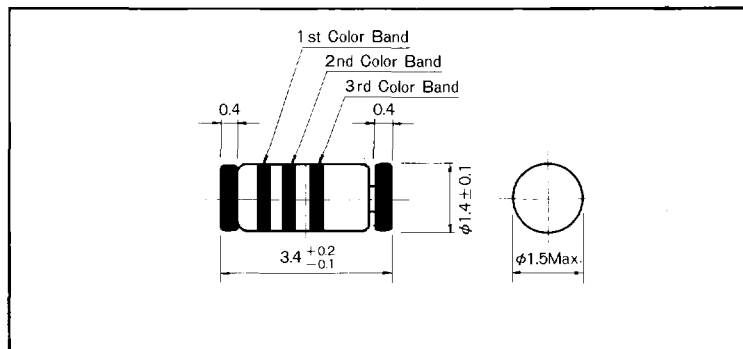
● 用途

定電圧制御用

● Applications

Voltage regulation.

● 外形寸法図/Dimensions (Unit : mm)



● 絶対最大定格/Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Limits | Unit |
|-----------|-----------|---------|------------------|
| 許容損失 | P_d | 400 | mW |
| 接合部温度 | T_j | 175 | $^\circ\text{C}$ |
| 保存温度範囲 | T_{stg} | -65~175 | $^\circ\text{C}$ |

● カソードバンド色別/Cathode Band Color

| Type | 1st Color Band | 2nd Color Band | 3rd Color Band | Type | 1st Color Band | 2nd Color Band | 3rd Color Band |
|-----------|----------------|----------------|-------------------------------------|---------|----------------|----------------|-------------------------------------|
| RLZ J 3.6 | Gray | Purple | A : Yellow B : Green C : Blue | RLZ J10 | Pink | Gray | A : Yellow B : Green C : Blue |
| RLZ J 3.9 | Gray | Gray | | RLZ J11 | Pink | White | |
| RLZ J 4.3 | Gray | White | | RLZ J12 | Green | Black | |
| RLZ J 4.7 | Pink | Black | | RLZ J13 | Green | Brown | |
| RLZ J 5.1 | Pink | Blown | | RLZ J15 | Green | Red | |
| RLZ J 5.6 | Pink | Red | | RLZ J16 | Green | Orenge | |
| RLZ J 6.2 | Pink | Orange | | RLZ J18 | Green | Yellow | |
| RLZ J 6.8 | Pink | Yellow | | RLZ J20 | Green | Green | |
| RLZ J 7.5 | Pink | Green | | RLZ J22 | Green | Blue | |
| RLZ J 8.2 | Pink | Blue | | RLZ J24 | Green | Purple | |
| RLZ J 9.1 | Pink | Purple | | | | | |

● 標準品・準標準品一覧表

(◎ : 標準品 ○ : 準標準品)

| | 包装名 | バルク | テーピング | | | |
|--------------|-----------|--------|-------|-------|--------|--------|
| | | | TE-11 | TE-12 | TE-11A | TE-12A |
| Type | 基本発注単位(個) | 10 000 | 2 500 | 2 500 | 10 000 | 10 000 |
| RLZ J Series | | (○) | (◎) | (◎) | (◎) | (◎) |

● 電気的特性/Electrical Characteristics (Ta=25°C)

| Type | ツェナー電圧 | | | ツェナー電圧細区分 | | | | 動作抵抗 | | 逆電流 | |
|-----------|--------------------|------|---------------------|--------------------|-------|---------------------|--------------------|---------------------|---------------------|--------------------|------|
| | V _Z (V) | | I _Z (mA) | V _Z (V) | | I _Z (mA) | Z _Z (Ω) | I _Z (mA) | I _R (μA) | V _R (V) | |
| | Min. | Max. | | Min. | Max. | | Max. | | Max. | | |
| RLZ J 2.0 | 1.90 | 2.20 | 5 | 1.90 | 2.20 | 5 | 100 | 5 | 120 | 0.5 | |
| RLZ J 2.2 | 2.10 | 2.40 | 5 | 2.10 | 2.40 | 5 | 100 | 5 | 120 | 0.7 | |
| RLZ J 2.4 | 2.30 | 2.60 | 5 | 2.30 | 2.60 | 5 | 100 | 5 | 120 | 1.0 | |
| RLZ J 2.7 | 2.50 | 2.90 | 5 | A | 2.50 | 2.75 | 5 | 110 | 5 | 120 | 1.0 |
| | | | | B | 2.65 | 2.90 | | | | | |
| RLZ J 3.0 | 2.80 | 3.20 | 5 | A | 2.80 | 3.05 | 5 | 120 | 5 | 50 | 1.0 |
| | | | | B | 2.95 | 3.20 | | | | | |
| RLZ J 3.3 | 3.10 | 3.50 | 5 | A | 3.10 | 3.35 | 5 | 130 | 5 | 20 | 1.0 |
| | | | | B | 3.25 | 3.50 | | | | | |
| RLZ J 3.6 | 3.4 | 3.8 | 5 | A | 3.40 | 3.65 | 5 | 130 | 5 | 10 | 1.0 |
| | | | | B | 3.55 | 3.80 | | | | | |
| RLZ J 3.9 | 3.7 | 4.1 | 5 | A | 3.70 | 3.97 | 5 | 130 | 5 | 10 | 1.0 |
| | | | | B | 3.87 | 4.10 | | | | | |
| RLZ J 4.3 | 4.0 | 4.5 | 5 | A | 4.00 | 4.23 | 5 | 130 | 5 | 10 | 1.0 |
| | | | | B | 4.13 | 4.35 | | | | | |
| | | | | C | 4.25 | 4.50 | | | | | |
| RLZ J 4.7 | 4.4 | 4.9 | 5 | A | 4.40 | 4.63 | 5 | 130 | 5 | 10 | 1.0 |
| | | | | B | 4.53 | 4.76 | | | | | |
| | | | | C | 4.66 | 4.90 | | | | | |
| RLZ J 5.1 | 4.8 | 5.4 | 5 | A | 4.80 | 5.07 | 5 | 130 | 5 | 5 | 1.5 |
| | | | | B | 4.97 | 5.24 | | | | | |
| | | | | C | 5.14 | 5.40 | | | | | |
| RLZ J 5.6 | 5.3 | 6.0 | 5 | A | 5.30 | 5.63 | 5 | 80 | 5 | 5 | 2.5 |
| | | | | B | 5.43 | 5.81 | | | | | |
| | | | | C | 5.61 | 6.00 | | | | | |
| RLZ J 6.2 | 5.8 | 6.6 | 5 | A | 5.80 | 6.20 | 5 | 50 | 5 | 2 | 3.0 |
| | | | | B | 6.00 | 6.39 | | | | | |
| | | | | C | 6.19 | 6.60 | | | | | |
| RLZ J 6.8 | 6.4 | 7.2 | 5 | A | 6.40 | 6.80 | 5 | 30 | 5 | 2 | 3.5 |
| | | | | B | 6.60 | 7.02 | | | | | |
| | | | | C | 6.82 | 7.20 | | | | | |
| RLZ J 7.5 | 7.0 | 7.9 | 5 | A | 7.00 | 7.43 | 5 | 30 | 5 | 2 | 4.0 |
| | | | | B | 7.23 | 7.66 | | | | | |
| | | | | C | 7.46 | 7.90 | | | | | |
| RLZ J 8.2 | 7.7 | 8.7 | 5 | A | 7.70 | 8.16 | 5 | 30 | 5 | 2 | 5.0 |
| | | | | B | 7.96 | 8.43 | | | | | |
| | | | | C | 8.23 | 8.70 | | | | | |
| RLZ J 9.1 | 8.5 | 9.6 | 5 | A | 8.50 | 9.00 | 5 | 30 | 5 | 2 | 6.0 |
| | | | | B | 8.80 | 9.30 | | | | | |
| | | | | C | 9.10 | 9.60 | | | | | |
| RLZ J 10 | 9.4 | 10.6 | 5 | A | 9.40 | 9.33 | 5 | 30 | 5 | 2 | 7.0 |
| | | | | B | 9.73 | 10.26 | | | | | |
| | | | | C | 10.06 | 10.60 | | | | | |
| RLZ J 11 | 10.4 | 11.6 | 5 | A | 10.40 | 10.98 | 5 | 30 | 5 | 2 | 8.0 |
| | | | | B | 10.73 | 11.26 | | | | | |
| | | | | C | 11.06 | 11.60 | | | | | |
| RLZ J 12 | 11.4 | 12.6 | 5 | A | 11.40 | 11.93 | 5 | 35 | 5 | 2 | 9.0 |
| | | | | B | 11.73 | 12.26 | | | | | |
| | | | | C | 12.06 | 12.60 | | | | | |
| RLZ J 13 | 12.4 | 14.1 | 5 | A | 12.40 | 13.08 | 5 | 35 | 5 | 2 | 10.0 |
| | | | | B | 12.88 | 13.57 | | | | | |
| | | | | C | 13.37 | 14.10 | | | | | |
| RLZ J 15 | 13.8 | 15.6 | 5 | A | 13.80 | 14.63 | 5 | 40 | 5 | 2 | 11.0 |
| | | | | B | 14.33 | 15.11 | | | | | |
| | | | | C | 14.81 | 15.60 | | | | | |

ダイオード
定電圧ダイオード

| Type | ツェナー電圧 | | | ツェナー電圧細区分 | | | 動作抵抗 | | 逆電流 | | |
|----------|-----------|------|------------|-----------|-------|------------|----------------------------|------------|--------------------------|-----------|------|
| | V_Z (V) | | I_Z (mA) | V_Z (V) | | I_Z (mA) | Z_z (Ω) Max. | I_Z (mA) | I_R (μ A) Max. | V_R (V) | |
| | Min. | Max. | | Min. | Max. | | | | | | |
| RLZ J 16 | 15.3 | 17.1 | 5 | A | 15.30 | 16.10 | 5 | 40 | 5 | 2 | 12.0 |
| | | | | B | 15.80 | 16.60 | | | | | |
| | | | | C | 16.30 | 17.10 | | | | | |
| RLZ J 18 | 16.8 | 19.1 | 5 | A | 16.80 | 17.76 | 5 | 45 | 5 | 2 | 13.0 |
| | | | | B | 17.46 | 18.43 | | | | | |
| | | | | C | 18.13 | 19.10 | | | | | |
| RLZ J 20 | 18.8 | 21.2 | 5 | A | 18.80 | 19.78 | 5 | 50 | 5 | 2 | 15.0 |
| | | | | B | 19.48 | 20.46 | | | | | |
| | | | | C | 20.16 | 21.20 | | | | | |
| RLZ J 22 | 20.8 | 23.3 | 5 | A | 20.80 | 21.88 | 5 | 55 | 5 | 2 | 17.0 |
| | | | | B | 21.48 | 22.56 | | | | | |
| | | | | C | 22.16 | 23.30 | | | | | |
| RLZ J 24 | 22.8 | 25.6 | 5 | A | 22.80 | 24.11 | 5 | 60 | 5 | 2 | 19.0 |
| | | | | B | 23.61 | 24.92 | | | | | |
| | | | | C | 24.42 | 25.60 | | | | | |

注(1) ツェナー電圧(V_Z)は定常状態で測定します。
 (2) 動作抵抗(Z_z)は規定電流(I_Z)に微小交流を重ねて測定します

● ツェナー特性曲線/Zener Characteristic Curves

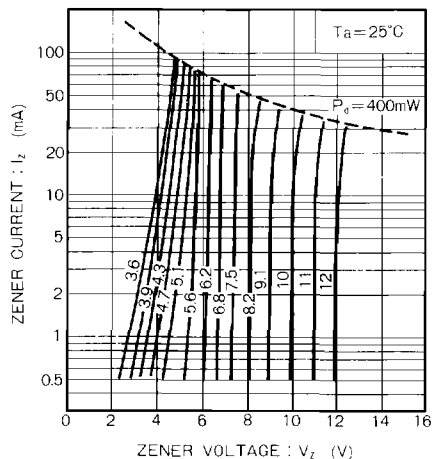


Fig.1 RLZ J 3.6~RLZ J 12のツェナー特性

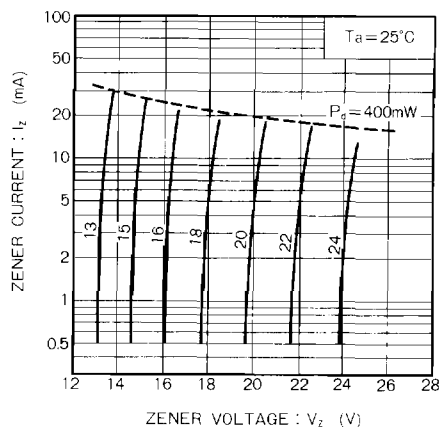


Fig.2 RLZ J 13~RLZ J 24のツェナー特性