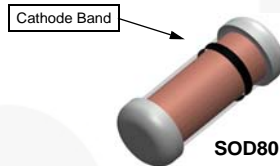


FLZ2V2 - FLZ39V Zener Diodes



| Color Band Marking | |
|--------------------|----------|
| Tolerance | 1st Band |
| A | Black |
| B | Black |
| C | Black |
| D | Black |

Ordering Information

| Device Marking | Device | Package | Reel Size | Tape Width | Quantity |
|-------------------------------------|--------------------------------|---------|-----------|------------|----------|
| Color Band Marking Per Tolerance | Refer to Product table list | SOD-80 | 7" | 8 mm | 2,500 |

Absolute Maximum Ratings⁽¹⁾

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Symbol | Parameter | Value | Units |
|-----------|--------------------------------------|-------------|------------------|
| P_D | Power Dissipation | 500 | mW |
| T_{STG} | Storage Temperature Range | -65 to +175 | $^\circ\text{C}$ |
| T_J | Junction Operating Temperature Range | -65 to +175 | $^\circ\text{C}$ |
| I_{ZM} | Maximum Regulator Current | P_D/V_Z | mA |

Note:

1. These ratings are limiting values above which the serviceability of the diode may be impaired.

Thermal Characteristics⁽²⁾

| Symbol | Parameter | Value | Unit |
|-----------------|---|-------|--------------------|
| $R_{\theta JA}$ | Thermal Resistance, Junction to Ambient | 300 | $^\circ\text{C/W}$ |

Note:

2. Device mounted on FR-4 PCB with $3'' \times 4.5'' \times 0.06$ with only signal trace.

Electrical Characteristics

Values are at $T_A=25^\circ\text{C}$ unless otherwise noted.

| Symbol | Parameter / Test condition | Min. | Typ. | Max. | Unit |
|--------|---------------------------------------|------|------|------|------|
| V_F | Forward Voltage / $I_F=200\text{ mA}$ | | | 1.2 | V |

Electrical Characteristics Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Product Group | Product Name | $V_Z^{(3)} (V) @ I_{ZT}$ | | | $Z_{ZT}(\Omega) @ I_{ZT}$ | $I_{ZT} (mA)$ | $Z_{ZK}(\Omega) @ I_{ZK}$ | $I_{ZK} (mA)$ | $I_R(\mu A) @ V_R$ | $V_R(V)$ |
|---------------|--------------|--------------------------|------|-------|---------------------------|---------------|---------------------------|---------------|--------------------|----------|
| | | Min. | Typ. | Max. | Max. | - | Max. | - | Max | - |
| FLZ2V2 | FLZ2V2A | 2.12 | 2.21 | 2.30 | 35 | 20 | 400 | 1 | 55 | 0.7 |
| | FLZ2V2B | 2.22 | 2.32 | 2.41 | 35 | 20 | 400 | 1 | 55 | 0.7 |
| FLZ2V4 | FLZ2V4A | 2.33 | 2.42 | 2.52 | 35 | 20 | 400 | 1 | 84 | 1 |
| | FLZ2V4B | 2.43 | 2.53 | 2.63 | 35 | 20 | 400 | 1 | 84 | 1 |
| FLZ2V7 | FLZ2V7A | 2.54 | 2.64 | 2.75 | 35 | 20 | 450 | 1 | 70 | 1 |
| | FLZ2V7B | 2.69 | 2.80 | 2.91 | 35 | 20 | 450 | 1 | 70 | 1 |
| FLZ3V0 | FLZ3V0A | 2.85 | 2.96 | 3.07 | 35 | 20 | 450 | 1 | 35 | 1 |
| | FLZ3V0B | 3.01 | 3.12 | 3.22 | 35 | 20 | 450 | 1 | 35 | 1 |
| FLZ3V3 | FLZ3V3A | 3.16 | 3.27 | 3.38 | 35 | 20 | 450 | 1 | 14 | 1 |
| | FLZ3V3B | 3.32 | 3.43 | 3.53 | 35 | 20 | 450 | 1 | 14 | 1 |
| FLZ3V6 | FLZ3V6A | 3.455 | 3.57 | 3.695 | 48 | 20 | 850 | 1 | 2.8 | 1 |
| | FLZ3V6B | 3.60 | 3.73 | 3.845 | 48 | 20 | 850 | 1 | 2.8 | 1 |
| FLZ3V9 | FLZ3V9A | 3.74 | 3.88 | 4.01 | 40 | 20 | 850 | 1 | 1.4 | 1 |
| | FLZ3V9B | 3.89 | 4.03 | 4.16 | 40 | 20 | 850 | 1 | 1.4 | 1 |
| FLZ4V3 | FLZ4V3A | 4.04 | 4.15 | 4.29 | 32 | 20 | 850 | 1 | 0.47 | 1 |
| | FLZ4V3B | 4.17 | 4.30 | 4.43 | 32 | 20 | 850 | 1 | 0.47 | 1 |
| | FLZ4V3C | 4.30 | 4.44 | 4.57 | 32 | 20 | 850 | 1 | 0.47 | 1 |
| FLZ4V7 | FLZ4V7A | 4.44 | 4.56 | 4.68 | 21 | 20 | 770 | 1 | 0.19 | 1 |
| | FLZ4V7B | 4.55 | 4.68 | 4.80 | 21 | 20 | 770 | 1 | 0.19 | 1 |
| | FLZ4V7C | 4.68 | 4.81 | 4.93 | 21 | 20 | 770 | 1 | 0.19 | 1 |
| FLZ5V1 | FLZ5V1A | 4.81 | 4.94 | 5.07 | 17 | 20 | 685 | 1 | 0.19 | 1.5 |
| | FLZ5V1B | 4.94 | 5.08 | 5.20 | 17 | 20 | 685 | 1 | 0.19 | 1.5 |
| | FLZ5V1C | 5.09 | 5.23 | 5.37 | 17 | 20 | 685 | 1 | 0.19 | 1.5 |
| FLZ5V6 | FLZ5V6A | 5.28 | 5.41 | 5.55 | 10.5 | 20 | 425 | 1 | 0.75 | 2.5 |
| | FLZ5V6B | 5.45 | 5.58 | 5.73 | 10.5 | 20 | 425 | 1 | 0.75 | 2.5 |
| | FLZ5V6C | 5.61 | 5.76 | 5.91 | 10.5 | 20 | 425 | 1 | 0.75 | 2.5 |
| FLZ6V2 | FLZ6V2A | 5.78 | 5.94 | 6.09 | 8.5 | 20 | 255 | 1 | 3.3 | 3 |
| | FLZ6V2B | 5.96 | 6.12 | 6.27 | 8.5 | 20 | 255 | 1 | 3.3 | 3 |
| | FLZ6V2C | 6.12 | 6.28 | 6.44 | 8.5 | 20 | 255 | 1 | 3.3 | 3 |
| FLZ6V8 | FLZ6V8A | 6.29 | 6.45 | 6.63 | 6.6 | 20 | 123 | 0.5 | 1.1 | 3.5 |
| | FLZ6V8B | 6.49 | 6.66 | 6.83 | 6.6 | 20 | 123 | 0.5 | 1.1 | 3.5 |
| | FLZ6V8C | 6.66 | 6.83 | 7.01 | 6.6 | 20 | 123 | 0.5 | 1.1 | 3.5 |
| FLZ7V5 | FLZ7V5A | 6.85 | 7.04 | 7.22 | 6.6 | 20 | 95 | 0.5 | 0.3 | 4.0 |
| | FLZ7V5B | 7.07 | 7.26 | 7.45 | 6.6 | 20 | 95 | 0.5 | 0.3 | 4.0 |
| | FLZ7V5C | 7.29 | 7.49 | 7.67 | 6.6 | 20 | 95 | 0.5 | 0.3 | 4.0 |
| FLZ8V2 | FLZ8V2A | 7.53 | 7.73 | 7.92 | 6.6 | 20 | 95 | 0.5 | 0.3 | 5 |
| | FLZ8V2B | 7.78 | 7.99 | 8.19 | 6.6 | 20 | 95 | 0.5 | 0.3 | 5 |
| | FLZ8V2C | 8.03 | 8.24 | 8.45 | 6.6 | 20 | 95 | 0.5 | 0.3 | 5 |

Electrical Characteristics (Continued) Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Product Group | Product Name | $V_Z^{(3)} (V) @ I_{ZT}$ | | | $Z_{ZT}(\Omega) @ I_{ZT}$ | $I_{ZT} (mA)$ | $Z_{ZK}(\Omega) @ I_{ZK}$ | $I_{ZK} (mA)$ | $I_R(\mu A) @ V_R$ | $V_R(V)$ |
|---------------|--------------|--------------------------|-------|-------|---------------------------|---------------|---------------------------|---------------|--------------------|----------|
| | | Min. | Typ. | Max. | Max. | - | Max. | - | Max | - |
| FLZ9V1 | FLZ9V1A | 8.29 | 8.51 | 8.73 | 6.6 | 20 | 95 | 0.5 | 0.3 | 6 |
| | FLZ9V1B | 8.57 | 8.80 | 9.01 | 6.6 | 20 | 95 | 0.5 | 0.3 | 6 |
| | FLZ9V1C | 8.83 | 9.09 | 9.30 | 6.6 | 20 | 95 | 0.5 | 0.3 | 6 |
| FLZ10V | FLZ10VA | 9.12 | 9.39 | 9.59 | 6.6 | 20 | 95 | 0.5 | 0.11 | 7 |
| | FLZ10VB | 9.41 | 9.69 | 9.90 | 6.6 | 20 | 95 | 0.5 | 0.11 | 7 |
| | FLZ10VC | 9.70 | 10.06 | 10.20 | 6.6 | 20 | 95 | 0.5 | 0.11 | 7 |
| FLZ11V | FLZ11VA | 10.18 | 10.41 | 10.71 | 8.5 | 10 | 95 | 0.5 | 0.133 | 8 |
| | FLZ11VB | 10.50 | 10.73 | 11.05 | 8.5 | 10 | 95 | 0.5 | 0.133 | 8 |
| | FLZ11VC | 10.82 | 11.04 | 11.38 | 8.5 | 10 | 95 | 0.5 | 0.133 | 8 |
| FLZ12V | FLZ12VA | 11.13 | 11.38 | 11.71 | 9.5 | 10 | 95 | 0.5 | 0.133 | 9 |
| | FLZ12VB | 11.44 | 11.71 | 12.03 | 9.5 | 10 | 95 | 0.5 | 0.133 | 9 |
| | FLZ12VC | 11.74 | 12.05 | 12.35 | 9.5 | 10 | 95 | 0.5 | 0.133 | 9 |
| FLZ13V | FLZ13VA | 12.11 | 12.45 | 12.75 | 11.4 | 10 | 95 | 0.5 | 0.133 | 10 |
| | FLZ13VB | 12.55 | 12.87 | 13.21 | 11.4 | 10 | 95 | 0.5 | 0.133 | 10 |
| | FLZ13VC | 12.99 | 13.33 | 13.66 | 11.4 | 10 | 95 | 0.5 | 0.133 | 10 |
| FLZ15V | FLZ15VA | 13.44 | 13.79 | 14.13 | 13.3 | 10 | 95 | 0.5 | 0.133 | 11 |
| | FLZ15VB | 13.89 | 14.26 | 14.62 | 13.3 | 10 | 95 | 0.5 | 0.133 | 11 |
| | FLZ15VC | 14.35 | 14.72 | 15.09 | 13.3 | 10 | 95 | 0.5 | 0.133 | 11 |
| FLZ16V | FLZ16VA | 14.80 | 15.19 | 15.57 | 15.2 | 10 | 132 | 0.5 | 0.133 | 12 |
| | FLZ16VB | 15.25 | 15.65 | 16.04 | 15.2 | 10 | 132 | 0.5 | 0.133 | 12 |
| | FLZ16VC | 15.69 | 16.14 | 16.51 | 15.2 | 10 | 132 | 0.5 | 0.133 | 12 |
| FLZ18V | FLZ18VA | 16.22 | 16.70 | 17.06 | 19.4 | 10 | 123 | 0.5 | 0.133 | 13 |
| | FLZ18VB | 16.82 | 17.29 | 17.70 | 19.4 | 10 | 123 | 0.5 | 0.133 | 13 |
| | FLZ18VC | 17.42 | 17.90 | 18.33 | 19.4 | 10 | 123 | 0.5 | 0.133 | 13 |
| FLZ20V | FLZ20VA | 18.02 | 18.52 | 18.96 | 23.5 | 10 | 170 | 0.5 | 0.133 | 15 |
| | FLZ20VB | 18.63 | 19.13 | 19.59 | 23.5 | 10 | 170 | 0.5 | 0.133 | 15 |
| | FLZ20VC | 19.23 | 19.80 | 20.22 | 23.5 | 10 | 170 | 0.5 | 0.133 | 15 |
| | FLZ20VD | 19.72 | 20.30 | 20.72 | 23.5 | 10 | 170 | 0.5 | 0.133 | 15 |
| FLZ22V | FLZ22VA | 20.15 | 20.66 | 21.20 | 25.6 | 5 | 170 | 0.5 | 0.133 | 17 |
| | FLZ22VB | 20.64 | 21.21 | 21.71 | 25.6 | 5 | 170 | 0.5 | 0.133 | 17 |
| | FLZ22VC | 21.08 | 21.66 | 22.17 | 25.6 | 5 | 170 | 0.5 | 0.133 | 17 |
| | FLZ22VD | 21.52 | 22.15 | 22.63 | 25.6 | 5 | 170 | 0.5 | 0.133 | 17 |
| FLZ24V | FLZ24VA | 22.05 | 22.69 | 23.18 | 29.0 | 5 | 170 | 0.5 | 0.133 | 19 |
| | FLZ24VB | 22.61 | 23.24 | 23.77 | 29.0 | 5 | 170 | 0.5 | 0.133 | 19 |
| | FLZ24VC | 23.12 | 23.78 | 24.31 | 29.0 | 5 | 170 | 0.5 | 0.133 | 19 |
| | FLZ24VD | 23.63 | 24.31 | 24.85 | 29.0 | 5 | 170 | 0.5 | 0.133 | 19 |

Electrical Characteristics (Continued) Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

| Product Group | Product Name | $V_Z^{(3)} (V) @ I_{ZT}$ | | | $Z_{ZT}(\Omega) @ I_{ZT}$ | $I_{ZT} (mA)$ | $Z_{ZK}(\Omega) @ I_{ZK}$ | $I_{ZK} (mA)$ | $I_R(\mu A) @ V_R$ | $V_R(V)$ |
|---------------|--------------|--------------------------|-------|-------|---------------------------|---------------|---------------------------|---------------|--------------------|----------|
| | | Min. | Typ. | Max. | Max. | - | Max. | - | Max | - |
| FLZ27V | FLZ27VA | 24.26 | 24.89 | 25.52 | 38 | 5 | 210 | 0.5 | 0.133 | 21 |
| | FLZ27VB | 24.97 | 25.62 | 26.26 | 38 | 5 | 210 | 0.5 | 0.133 | 21 |
| | FLZ27VC | 25.63 | 26.29 | 26.95 | 38 | 5 | 210 | 0.5 | 0.133 | 21 |
| | FLZ27VD | 26.29 | 26.97 | 27.64 | 38 | 5 | 210 | 0.5 | 0.133 | 21 |
| FLZ30V | FLZ30VA | 26.99 | 27.69 | 28.39 | 46 | 5 | 210 | 0.5 | 0.133 | 23 |
| | FLZ30VB | 27.70 | 28.41 | 29.13 | 46 | 5 | 210 | 0.5 | 0.133 | 23 |
| | FLZ30VC | 28.36 | 29.09 | 29.82 | 46 | 5 | 210 | 0.5 | 0.133 | 23 |
| | FLZ30VD | 29.02 | 29.77 | 30.51 | 46 | 5 | 210 | 0.5 | 0.133 | 23 |
| FLZ33V | FLZ33VA | 29.68 | 30.45 | 31.22 | 55 | 5 | 210 | 0.5 | 0.133 | 25 |
| | FLZ33VB | 30.32 | 31.10 | 31.88 | 55 | 5 | 210 | 0.5 | 0.133 | 25 |
| | FLZ33VC | 30.90 | 31.70 | 32.50 | 55 | 5 | 210 | 0.5 | 0.133 | 25 |
| | FLZ33VD | 31.49 | 32.30 | 33.11 | 55 | 5 | 210 | 0.5 | 0.133 | 25 |
| FLZ36V | FLZ36VA | 32.14 | 32.96 | 33.79 | 63 | 5 | 210 | 0.5 | 0.133 | 27 |
| | FLZ36VB | 32.79 | 33.63 | 34.49 | 63 | 5 | 210 | 0.5 | 0.133 | 27 |
| | FLZ36VC | 33.40 | 34.27 | 35.13 | 63 | 5 | 210 | 0.5 | 0.133 | 27 |
| | FLZ36VD | 34.01 | 34.89 | 35.77 | 63 | 5 | 210 | 0.5 | 0.133 | 27 |
| FLZ39V | FLZ39VA | 34.68 | 35.57 | 36.47 | 72 | 5 | 210 | 0.5 | 0.133 | 30 |
| | FLZ39VB | 35.36 | 36.26 | 37.19 | 72 | 5 | 210 | 0.5 | 0.133 | 30 |
| | FLZ39VC | 36.00 | 36.92 | 37.85 | 72 | 5 | 210 | 0.5 | 0.133 | 30 |
| | FLZ39VD | 36.63 | 37.58 | 38.52 | 72 | 5 | 210 | 0.5 | 0.133 | 30 |

Note:

3. Zener Voltage (V_Z): The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (TL) at $30^\circ\text{C} \pm 1^\circ\text{C}$ and 3/8" lead length.

Typical Performance Characteristics

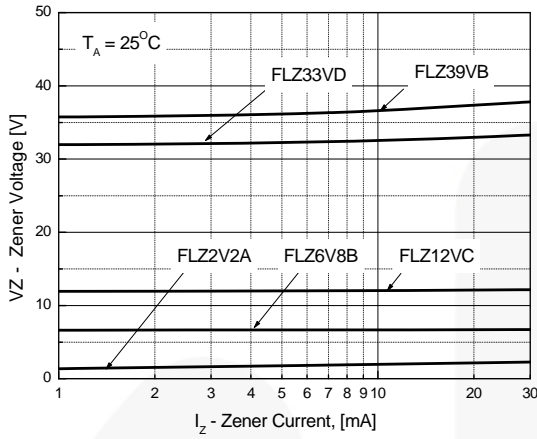


Figure 1. Zener current vs. Zener Voltage

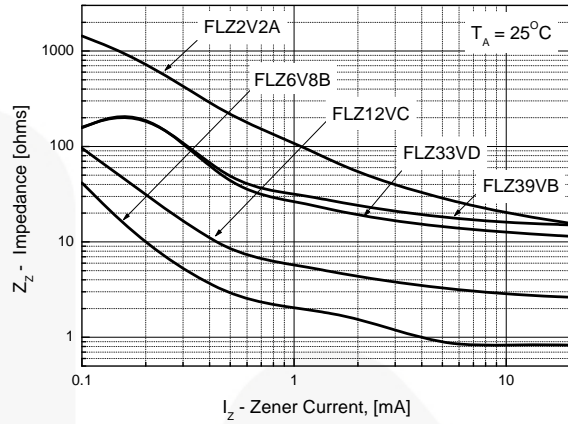


Figure 2. Zener current vs. Zener Impedance

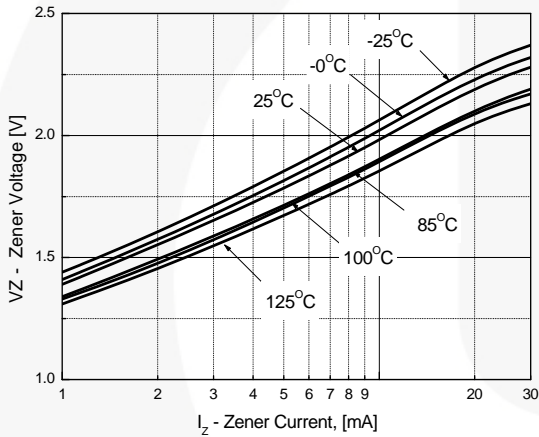


Figure 3. FLZ2V2A
Zener current vs. Zener Voltage

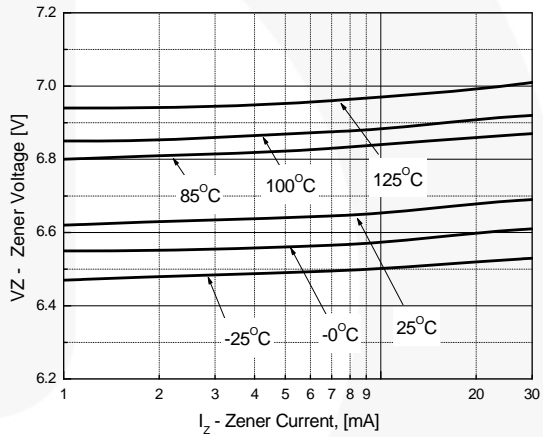


Figure 4. FLZ6V8B
Zener current vs. Zener Voltage

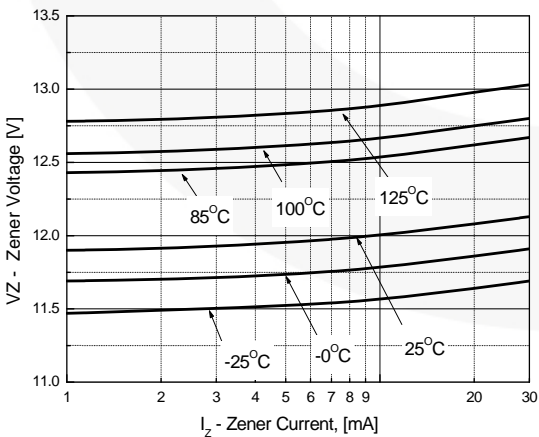


Figure 5. FLZ12VC
Zener current vs. Zener Voltage

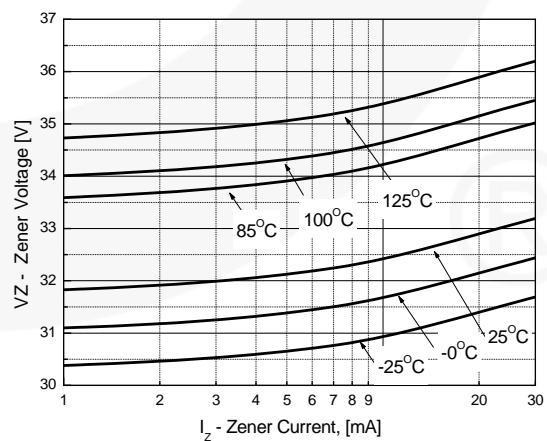


Figure 6. FLZ33VD
Zener current vs. Zener Voltage

Typical Performance Characteristics (Continued)

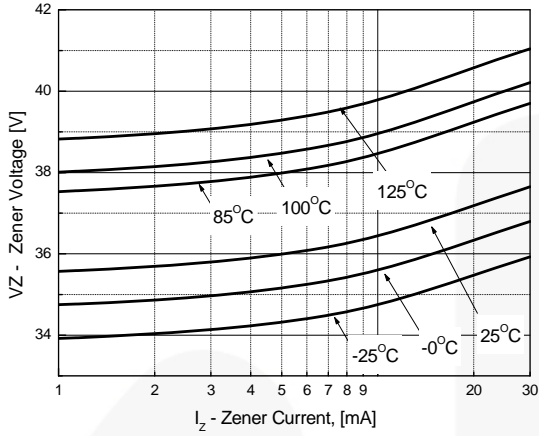
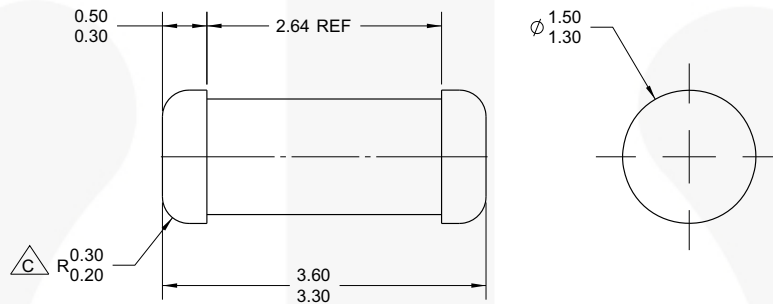


Figure 7. FLZ39VB
Zener current vs. Zener Voltage



Physical Dimensions

SOD-80



NOTES: UNLESS OTHERWISE SPECIFIED

A) PACKAGE STANDARD REFERENCE:
JEDEC DO-213, VARIATION AC.

B) ALL DIMENSIONS ARE IN MILLIMETERS.

 CORNER RADIUS IS OPTIONAL.

D) DRAWING FILE NAME: SOD80A REV01

Figure 8. 2-TERMINAL, SOD-80, JEDEC DO-213AC, MINI-MELF

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| BitSiC™ | Global Power Resource SM | Programmable Active Droop™ | TinyBuck™ |
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| CorePLUS™ | Green FPS™ | QS™ | TinyLogic® |
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| Dual Cool™ | Making Small Speakers Sound Louder and Better™ | SmartMax™ | TriFault Detect™ |
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| EfficientMax™ | MICROCOUPLER™ | Solutions for Your Success™ | μSerDes™ |
| ESBC™ | MicroFET™ | SPM® |  |
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| Fairchild Semiconductor® | MillerDrive™ | SuperSOT™-3 | UniFET™ |
| FACT Quiet Series™ | MotionMax™ | SuperSOT™-6 | VXC™ |
| FACT® | mWSaver™ | SuperSOT™-8 | VisualMax™ |
| FAST® | OptoHi™ | SupreMOS® | VoltagePlus™ |
| FastvCore™ | OPTOLOGIC® | SyncFET™ | XS™ |
| FETBench™ | OPTOPLANAR® | | |

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Definition of Terms

| Datasheet Identification | Product Status | Definition |
|--------------------------|-----------------------|---|
| Advance Information | Formative / In Design | Datasheet contains the design specifications for product development. Specifications may change in any manner without notice. |
| Preliminary | First Production | Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design. |
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