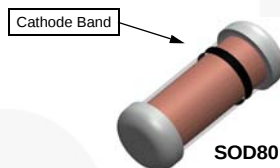


# FLZ2V2 - FLZ39V Zener Diodes



| 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<br>Per Tolerance | Refer to<br>Product table list | SOD-80  | 7"        | 8 mm       | 2,500    |

## Absolute Maximum Ratings<sup>(1)</sup>

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<sup>(2)</sup>

| 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

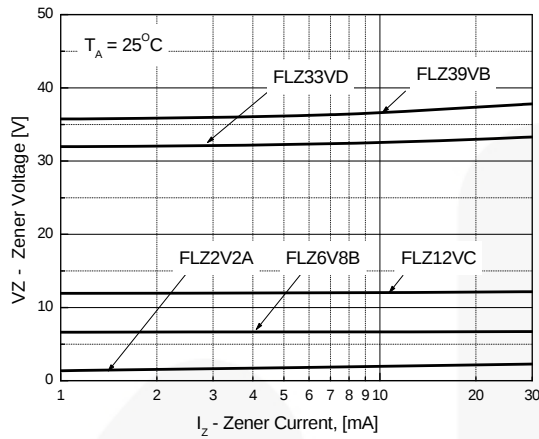


Figure 1. Zener current vs. Zener Voltage

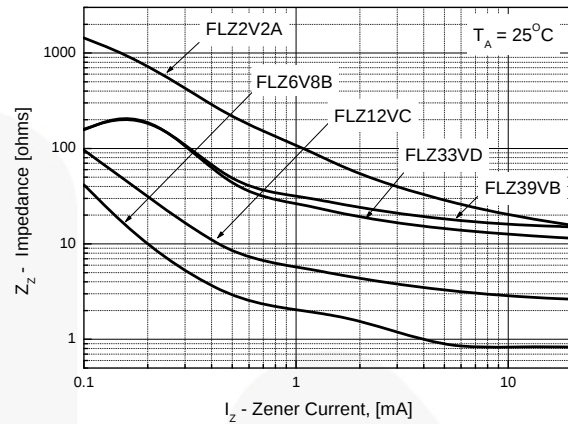


Figure 2. Zener current vs. Zener Impedance

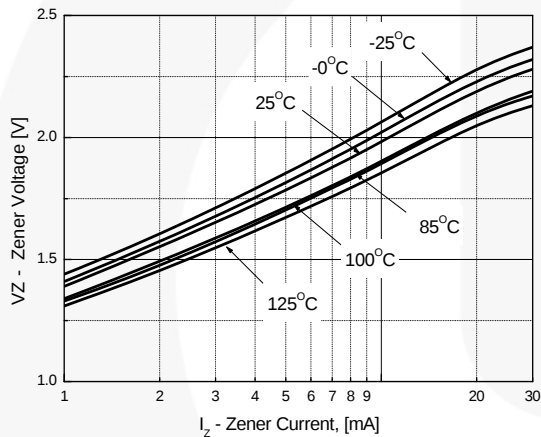


Figure 3. FLZ2V2A  
Zener current vs. Zener Voltage

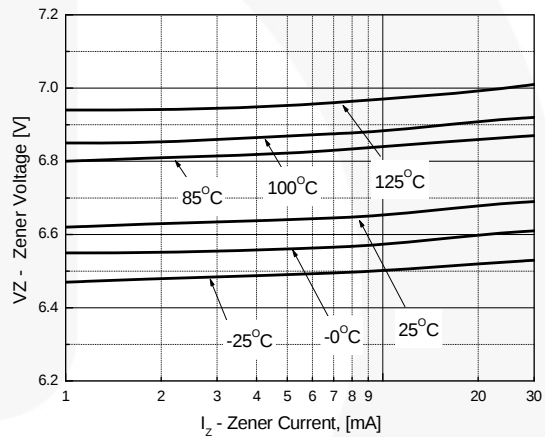


Figure 4. FLZ6V8B  
Zener current vs. Zener Voltage

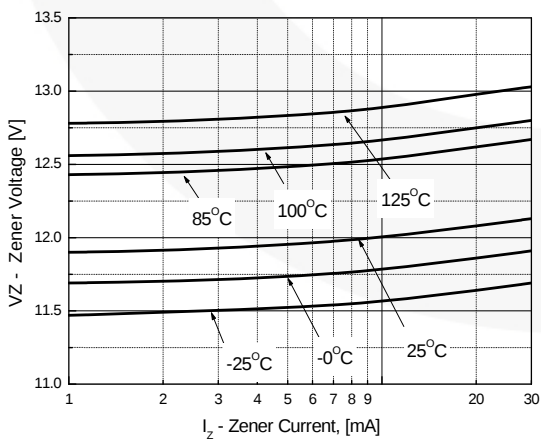


Figure 5. FLZ12VC  
Zener current vs. Zener Voltage

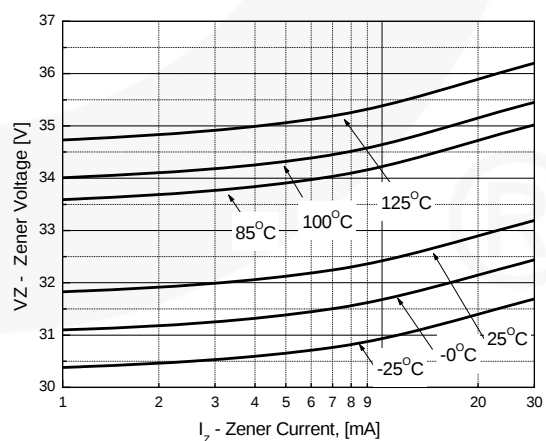
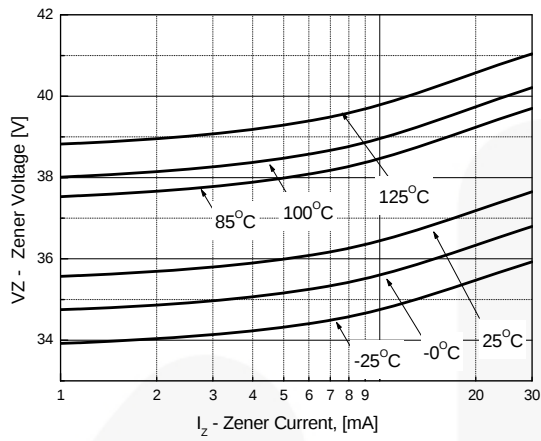


Figure 6. FLZ33VD  
Zener current vs. Zener Voltage

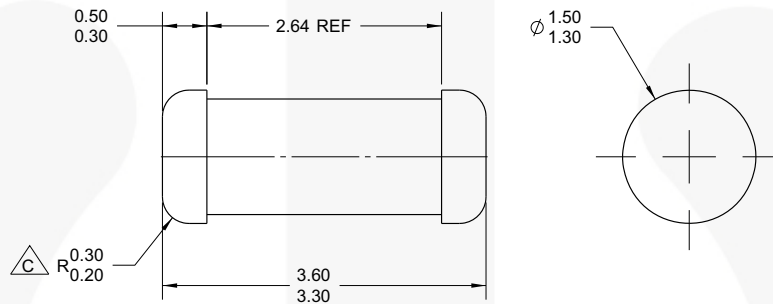
## Typical Performance Characteristics (Continued)



**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**

Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

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<http://www.fairchildsemi.com/packaging/>.

For current tape and reel specifications, visit Fairchild Semiconductor's online packaging area:

[http://www.fairchildsemi.com/packaging/tr/SOD80A\\_tnr.pdf](http://www.fairchildsemi.com/packaging/tr/SOD80A_tnr.pdf).



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|                                                                                   |                                                |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2Cool™                                                                            | FPS™                                           |  | Sync-Lock™                                                                          |
| AccuPower™                                                                        | F-PFS™                                         | PowerTrench®                                                                      | SYSTEM GENERAL®                                                                     |
| AX-CAP®*                                                                          | FRFET®                                         | PowerXS™                                                                          | TinyBoost™                                                                          |
| BitSiC™                                                                           | Global Power Resource™                         | Programmable Active Droop™                                                        | TinyBuck™                                                                           |
| Build it Now™                                                                     | GreenBridge™                                   | QFET®                                                                             | TinyCalc™                                                                           |
| CorePLUS™                                                                         | Green FPS™                                     | QS™                                                                               | TinyLogic®                                                                          |
| CorePOWER™                                                                        | Green FPS™ e-Series™                           | Quiet Series™                                                                     | TINYOPTO™                                                                           |
| CROSSVOLT™                                                                        | Gmax™                                          | RapidConfigure™                                                                   | TinyPower™                                                                          |
| CTL™                                                                              | GTO™                                           |  | TinyPWM™                                                                            |
| Current Transfer Logic™                                                           | IntelliMAX™                                    | Saving our world, 1mW/W/kW at a time™                                             | TinyWire™                                                                           |
| DEUXPEED®                                                                         | ISOPLANAR™                                     | SignalWise™                                                                       | TranSiC™                                                                            |
| Dual Cool™                                                                        | Making Small Speakers Sound Louder and Better™ | SmartMax™                                                                         | TriFault Detect™                                                                    |
| EcoSPARK®                                                                         | MegaBuck™                                      | SMART START™                                                                      | TRUECURRENT®*                                                                       |
| EfficientMax™                                                                     | MICROCOUPLER™                                  | Solutions for Your Success™                                                       | µSerDes™                                                                            |
| ESBC™                                                                             | MicroFET™                                      | SPM®                                                                              |  |
|  | MicroPak™                                      | STEALTH™                                                                          | UHC®                                                                                |
| Fairchild®                                                                        | MicroPak2™                                     | SuperFET™                                                                         | Ultra FRFET™                                                                        |
| Fairchild Semiconductor®                                                          | MillerDrive™                                   | SuperSOT™-3                                                                       | UniFET™                                                                             |
| FACT Quiet Series™                                                                | MotionMax™                                     | SuperSOT™-6                                                                       | VCX™                                                                                |
| FACT®                                                                             | mWSaver™                                       | SuperSOT™-8                                                                       | VisualMax™                                                                          |
| FAST®                                                                             | OptoHiT™                                       | SupreMOS®                                                                         | VoltagePlus™                                                                        |
| FastvCore™                                                                        | OPTOLOGIC®                                     | SyncFET™                                                                          | XS™                                                                                 |
| FETBench™                                                                         | OPTOPLANAR®                                    |                                                                                   |                                                                                     |

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