

Is Now Part of

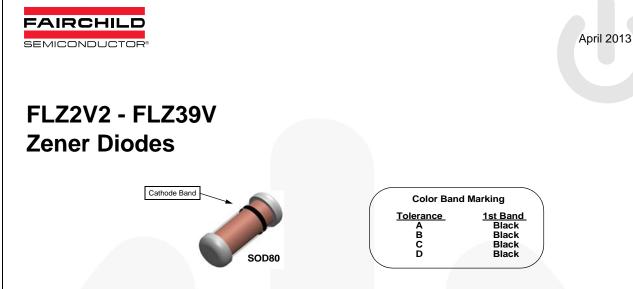


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# **Ordering Information**

| 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  $T_A = 25^{\circ}$ C unless otherwise noted.

| Symbol           | Parameter                            | Value                          | Units |
|------------------|--------------------------------------|--------------------------------|-------|
| PD               | Power Dissipation                    | 500                            | mW    |
| T <sub>STG</sub> | Storage Temperature Range            | -65 to +175                    | °C    |
| TJ               | Junction Operating Temperature Range | -65 to +175                    | °C    |
| I <sub>ZM</sub>  | Maximum Regulator Current            | P <sub>D</sub> /V <sub>Z</sub> | 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 |
|-----------------------|---|-------|------|
| $R_{	extsf{	heta}JA}$ | Thermal Resistance, Junction to Ambient | 300   | °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  $T_A=25^{\circ}C$  unless otherwise noted.

| Symbo          | Parameter / Test condition               | Min. | Тур. | Max. | Unit |
|----------------|--|------|------|------|------|
| V <sub>F</sub> | Forward Voltage / I <sub>F</sub> =200 mA |      |      | 1.2  | V    |

© 2005 Fairchild Semiconductor Corporation FLZ2V2 - FLZ39V Rev. 1.1.0

| Product | Product | Vz    | <sup>(3)</sup> (V) @ | I <sub>ZT</sub> | Z <sub>ZT</sub> (Ω)<br>@ I <sub>ZT</sub> | I <sub>ZT</sub><br>(mA) | Z <sub>ZK</sub> (Ω)<br>@ I <sub>ZK</sub> | I <sub>ZK</sub><br>(mA) | I <sub>R</sub> (μΑ)<br>@V <sub>R</sub> | V <sub>R</sub> (V) |
|---------|---------|-------|----------------------|-----------------|--|-------------------------|--|-------------------------|--|--------------------|
| Group   | Name    | Min.  | Тур.                 | 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                  |

# FLZ2V2 - FLZ39V — Zener Diodes

FLZ2V2 - FLZ39V — Zener Diodes

| Product | Product | ٧ <sub>Z</sub> | <sup>(3)</sup> (V) @ | I <sub>ZT</sub> | Z <sub>ZT</sub> (Ω)<br>@ I <sub>ZT</sub> | I <sub>ZT</sub><br>(mA)<br>- | Z <sub>ZK</sub> (Ω)<br>@ I <sub>ZK</sub><br>Max. | I <sub>ZK</sub><br>(mA)<br>- | I <sub>R</sub> (μA)<br>@V <sub>R</sub><br>Max | V <sub>R</sub> (V)<br>- |
|---------|---------|----------------|----------------------|-----------------|--|------------------------------|--|------------------------------|---|-------------------------|
| Group   | Name    | Min.           | Тур.                 | 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                      |

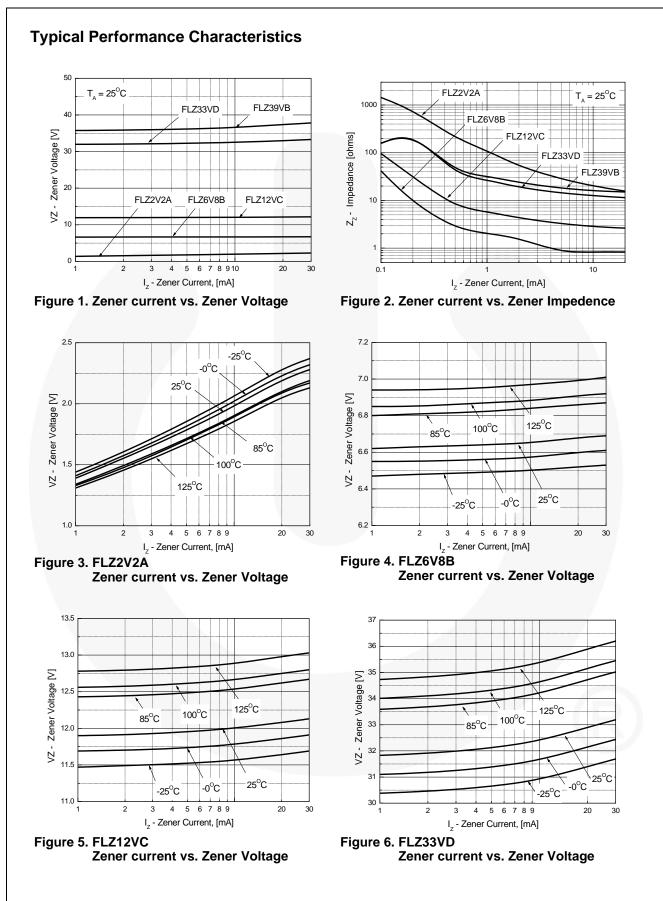
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| Product<br>Group | Product | Product | $V_Z^{(3)}$ (V) @ I <sub>ZT</sub> |       | I <sub>ZT</sub> | Z <sub>ZT</sub> (Ω)<br>@ I <sub>ZT</sub> | I <sub>ZT</sub><br>(mA) | Z <sub>ZK</sub> (Ω)<br>@ I <sub>ZK</sub> | l <sub>ZK</sub><br>(mA) | I <sub>R</sub> (μΑ)<br>@ V <sub>R</sub> | V <sub>R</sub> (V) |
|------------------|---------|---------|-----------------------------------|-------|-----------------|--|-------------------------|--|-------------------------|---|--------------------|
|                  | Name    | Min.    | Тур.                              | 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                                      |                    |
| ŀ                | 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                                      |                    |
| ľ                | 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                                      |                    |
| ľ                | FLZ39VD | 36.63   | 37.58                             | 38.52 | 72              | 5  | 210                     | 0.5                                      | 0.133                   | 30                                      |                    |

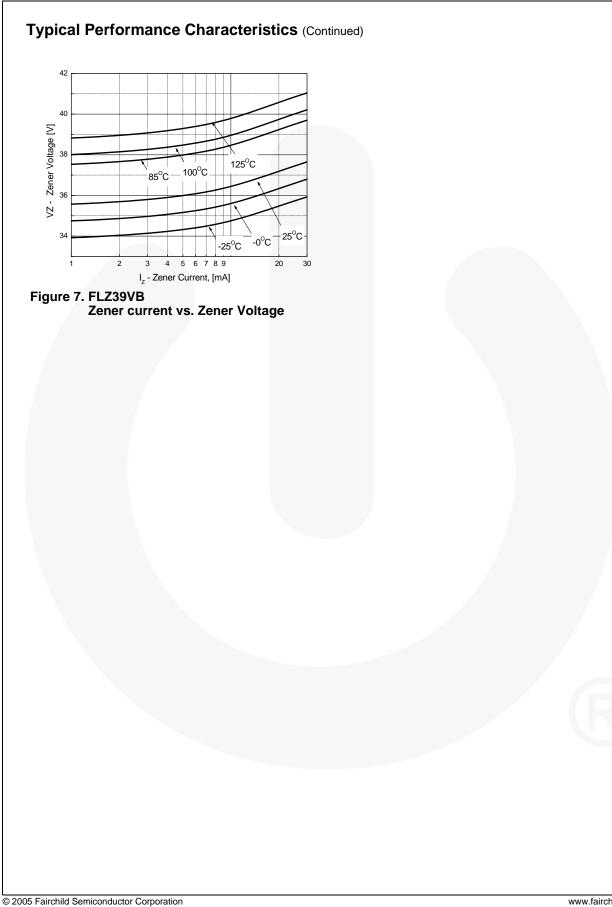
# Note:

3. Zener Voltage(V<sub>z</sub>): The zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (TL) at 30°C  $\pm$  1°C and 3/8" lead length.

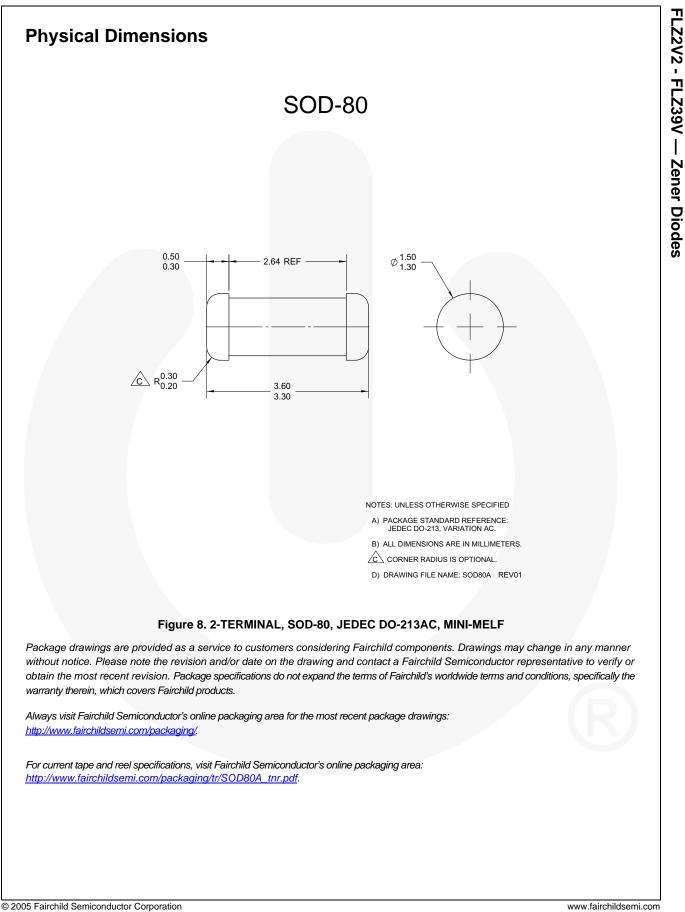
FLZ2V2 - FLZ39V — Zener Diodes



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