



# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206



Certificate Number: Q10561

Certificate Number: E17276

## 2EZ3.6D10 Series

## SILICON ZENER DIODES

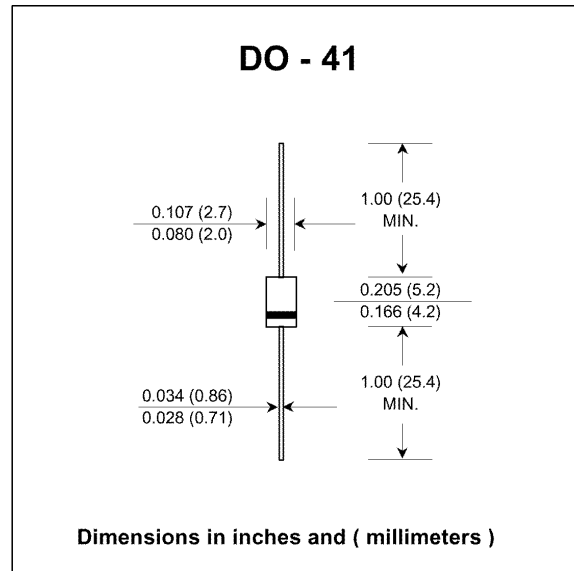
**V<sub>Z</sub> : 3.6 - 200 Volts**  
**P<sub>D</sub> : 2 Watts**

### FEATURES :

- \* Complete Voltage Range 3.6 to 200 Volts
- \* High peak reverse power dissipation
- \* High reliability
- \* Low leakage current

### MECHANICAL DATA

- \* Case : DO-41 Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.339 gram



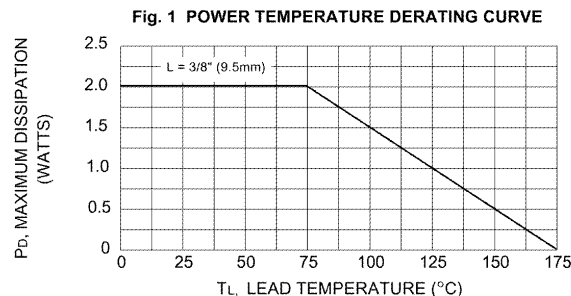
### MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

| Rating   | Symbol         | Value         | Unit |
|--|----------------|---------------|------|
| DC Power Dissipation at T <sub>L</sub> = 75 °C (Note1) | P <sub>D</sub> | 2.0           | W    |
| Maximum Forward Voltage at I <sub>F</sub> = 200 mA     | V <sub>F</sub> | 1.2           | V    |
| Junction Temperature Range                             | T <sub>J</sub> | - 55 to + 175 | °C   |
| Storage Temperature Range                              | T <sub>S</sub> | - 55 to + 175 | °C   |

**Note :**

(1) T<sub>L</sub> = Lead temperature at 3/8 " (9.5mm) from body





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**ELECTRICAL CHARACTERISTICS**

Rating at 25 °C ambient temperature unless otherwise specified

| TYPE      | Nominal Zener Voltage |      | Maximum Zener Impedance |           |      | Maximum Reverse Leakage Current |       | Maximum DC Zener Current |
|-----------|-----------------------|------|-------------------------|-----------|------|---------------------------------|-------|--------------------------|
|           | Vz @ IzT              | IzT  | ZzT @ IzT               | Zzk @ Izk | Izk  | IR @ VR                         | IzM   |                          |
|           | (V)                   | (mA) | (Ω)                     | (Ω)       | (mA) | (μA)                            | (mA)  |                          |
| 2EZ3.6D10 | 3.6                   | 139  | 5.0                     | 400       | 1.0  | 80                              | 1.0   | 504                      |
| 2EZ3.9D10 | 3.9                   | 128  | 5.0                     | 400       | 1.0  | 50                              | 1.0   | 468                      |
| 2EZ4.3D10 | 4.3                   | 116  | 4.5                     | 400       | 1.0  | 50                              | 1.0   | 434                      |
| 2EZ4.7D10 | 4.7                   | 106  | 4.5                     | 550       | 1.0  | 50                              | 1.0   | 386                      |
| 2EZ5.1D10 | 5.1                   | 98.0 | 3.5                     | 600       | 1.0  | 50                              | 1.0   | 356                      |
| 2EZ5.6D10 | 5.6                   | 89.5 | 2.5                     | 500       | 1.0  | 50                              | 2.0   | 324                      |
| 2EZ6.2D10 | 6.2                   | 80.5 | 1.5                     | 700       | 1.0  | 50                              | 3.0   | 292                      |
| 2EZ6.5D10 | 6.5                   | 77.0 | 1.7                     | 700       | 1.0  | 50                              | 3.5   | 278                      |
| 2EZ6.8D10 | 6.8                   | 73.5 | 2.0                     | 700       | 1.0  | 50                              | 4.0   | 266                      |
| 2EZ7.5D10 | 7.5                   | 66.5 | 2.0                     | 700       | 0.5  | 50                              | 5.0   | 242                      |
| 2EZ8.2D10 | 8.2                   | 61.0 | 2.3                     | 700       | 0.5  | 50                              | 6.0   | 220                      |
| 2EZ9.1D10 | 9.1                   | 55.0 | 2.5                     | 700       | 0.5  | 50                              | 7.0   | 200                      |
| 2EZ10D10  | 10                    | 50.0 | 3.5                     | 700       | 0.25 | 50                              | 7.6   | 182                      |
| 2EZ11D10  | 11                    | 45.5 | 4.0                     | 700       | 0.25 | 50                              | 8.4   | 166                      |
| 2EZ12D10  | 12                    | 41.5 | 4.5                     | 700       | 0.25 | 1.0                             | 9.1   | 152                      |
| 2EZ13D10  | 13                    | 38.5 | 5.0                     | 700       | 0.25 | 0.5                             | 9.9   | 138                      |
| 2EZ14D10  | 14                    | 35.7 | 5.5                     | 700       | 0.25 | 0.5                             | 10.6  | 130                      |
| 2EZ15D10  | 15                    | 33.4 | 7.0                     | 700       | 0.25 | 0.5                             | 11.4  | 122                      |
| 2EZ16D10  | 16                    | 31.2 | 8.0                     | 700       | 0.25 | 0.5                             | 12.2  | 114                      |
| 2EZ17D10  | 17                    | 29.4 | 9.0                     | 750       | 0.25 | 0.5                             | 13.0  | 107                      |
| 2EZ18D10  | 18                    | 27.8 | 10                      | 750       | 0.25 | 0.5                             | 13.7  | 100                      |
| 2EZ19D10  | 19                    | 26.3 | 11                      | 750       | 0.25 | 0.5                             | 14.4  | 95                       |
| 2EZ20D10  | 20                    | 25.0 | 11                      | 750       | 0.25 | 0.5                             | 15.2  | 90                       |
| 2EZ22D10  | 22                    | 22.8 | 12                      | 750       | 0.25 | 0.5                             | 16.7  | 82                       |
| 2EZ24D10  | 24                    | 20.8 | 13                      | 750       | 0.25 | 0.5                             | 18.2  | 76                       |
| 2EZ27D10  | 27                    | 18.5 | 18                      | 750       | 0.25 | 0.5                             | 20.6  | 68                       |
| 2EZ30D10  | 30                    | 16.6 | 20                      | 1000      | 0.25 | 0.5                             | 22.5  | 60                       |
| 2EZ33D10  | 33                    | 15.1 | 23                      | 1000      | 0.25 | 0.5                             | 25.1  | 55                       |
| 2EZ36D10  | 36                    | 13.9 | 25                      | 1000      | 0.25 | 0.5                             | 27.4  | 50                       |
| 2EZ39D10  | 39                    | 12.8 | 30                      | 1000      | 0.25 | 0.5                             | 29.7  | 47                       |
| 2EZ43D10  | 43                    | 11.6 | 35                      | 1500      | 0.25 | 0.5                             | 32.7  | 43                       |
| 2EZ47D10  | 47                    | 10.6 | 40                      | 1500      | 0.25 | 0.5                             | 35.8  | 39                       |
| 2EZ51D10  | 51                    | 9.8  | 48                      | 1500      | 0.25 | 0.5                             | 38.8  | 36                       |
| 2EZ56D10  | 56                    | 9.0  | 55                      | 2000      | 0.25 | 0.5                             | 42.6  | 32                       |
| 2EZ62D10  | 62                    | 8.1  | 60                      | 2000      | 0.25 | 0.5                             | 47.1  | 29                       |
| 2EZ68D10  | 68                    | 7.4  | 75                      | 2000      | 0.25 | 0.5                             | 51.7  | 27                       |
| 2EZ75D10  | 75                    | 6.7  | 90                      | 2000      | 0.25 | 0.5                             | 56.0  | 24                       |
| 2EZ82D10  | 82                    | 6.1  | 100                     | 3000      | 0.25 | 0.5                             | 62.2  | 22                       |
| 2EZ91D10  | 91                    | 5.5  | 125                     | 3000      | 0.25 | 0.5                             | 69.2  | 20                       |
| 2EZ100D10 | 100                   | 5.0  | 175                     | 3000      | 0.25 | 0.5                             | 76.0  | 18                       |
| 2EZ110D10 | 110                   | 4.5  | 250                     | 4000      | 0.25 | 0.5                             | 83.6  | 17                       |
| 2EZ120D10 | 120                   | 4.2  | 325                     | 4500      | 0.25 | 0.5                             | 91.2  | 15                       |
| 2EZ130D10 | 130                   | 3.8  | 400                     | 5000      | 0.25 | 0.5                             | 98.8  | 14                       |
| 2EZ140D10 | 140                   | 3.6  | 500                     | 5500      | 0.25 | 0.5                             | 106.4 | 13                       |
| 2EZ150D10 | 150                   | 3.3  | 575                     | 6000      | 0.25 | 0.5                             | 114.0 | 12                       |
| 2EZ160D10 | 160                   | 3.1  | 650                     | 6500      | 0.25 | 0.5                             | 121.6 | 11                       |
| 2EZ170D10 | 170                   | 2.9  | 675                     | 7000      | 0.25 | 0.5                             | 130.4 | 11                       |
| 2EZ180D10 | 180                   | 2.8  | 725                     | 7000      | 0.25 | 0.5                             | 136.8 | 10                       |
| 2EZ190D10 | 190                   | 2.6  | 825                     | 8000      | 0.25 | 0.5                             | 144.8 | 10                       |
| 2EZ200D10 | 200                   | 2.5  | 900                     | 8000      | 0.25 | 0.5                             | 152.0 | 9.0                      |

Note :

- ( 1 ) Suffix " 10 " indicates ± 10% tolerance, suffix " 5 " indicates ± 5% tolerance.
- ( 2 ) " EZ " will be omitted in marking on the diode