



DFLZ3V3 - DFLZ200

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE RANGE: 3.3 - 200V

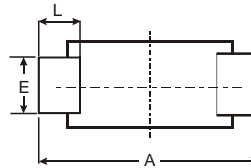
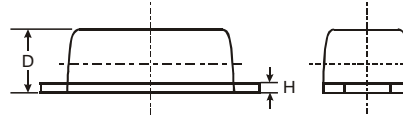
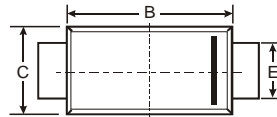
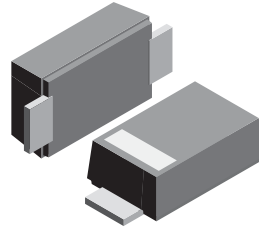
POWER: 1.0Watts

Features

- High peak reverse power dissipation
- High reliability
- Low leakage current

Mechanical Data

- Case: SOD-123FL
plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight: 0.0007 ounce, 0.02 grams



| SOD-123FL | | | |
|----------------------|-------|------|------|
| Dim | Min | Max | Typ |
| A | 3.58 | 3.72 | 3.65 |
| B | 2.72 | 2.78 | 2.75 |
| C | 1.77 | 1.83 | 1.80 |
| D | 1.02 | 1.08 | 1.05 |
| E | 0.097 | 1.03 | 1.00 |
| H | 0.13 | 0.17 | 0.15 |
| L | 0.53 | 0.57 | 0.55 |
| All Dimensions in mm | | | |

Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

| Rating | Symbol | Value | Unit |
|--|-----------------|---------------|------------------|
| DC Power Dissipation at $T_L = 50^\circ\text{C}$ (Note1) | P_D | 1.0 | Watt |
| Maximum Forward Voltage at $I_F = 200\text{ mA}$ | V_F | 1.2 | Volts |
| Maximum Thermal Resistance Junction to Ambient Air (Note2) | $R_{\theta JA}$ | 170 | K / W |
| Junction Temperature Range | T_J | - 55 to + 175 | $^\circ\text{C}$ |
| Storage Temperature Range | T_S | - 55 to + 175 | $^\circ\text{C}$ |

Note :

- (1) T_L = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



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) | (V) | (mA) |
| DFLZ3V3 | 3.3 | 76.0 | 10 | 400 | 1.0 | 100 | 1.0 | 276 |
| DFLZ3V6 | 3.6 | 69.0 | 10 | 400 | 1.0 | 100 | 1.0 | 252 |
| DFLZ3V9 | 3.9 | 64.0 | 9.0 | 400 | 1.0 | 50 | 1.0 | 234 |
| DFLZ4V3 | 4.3 | 58.0 | 9.0 | 400 | 1.0 | 10 | 1.0 | 217 |
| DFLZ4V7 | 4.7 | 53.0 | 8.0 | 500 | 1.0 | 10 | 1.0 | 193 |
| DFLZ5V1 | 5.1 | 49.0 | 7.0 | 550 | 1.0 | 10 | 1.0 | 178 |
| DFLZ5V6 | 5.6 | 45.0 | 5.0 | 600 | 1.0 | 10 | 2.0 | 162 |
| DFLZ6V2 | 6.2 | 41.0 | 2.0 | 700 | 1.0 | 10 | 3.0 | 146 |
| DFLZ6V8 | 6.8 | 37.0 | 3.5 | 700 | 1.0 | 50 | 4.0 | 133 |
| DFLZ7V5 | 7.5 | 34.0 | 4.0 | 700 | 0.5 | 50 | 5.0 | 121 |
| DFLZ8V2 | 8.2 | 31.0 | 4.5 | 700 | 0.5 | 50 | 6.0 | 110 |
| DFLZ9V1 | 9.1 | 28.0 | 5.0 | 700 | 0.5 | 50 | 7.0 | 100 |
| DFLZ10 | 10 | 25.0 | 7.0 | 700 | 0.25 | 50 | 7.6 | 91 |
| DFLZ11 | 11 | 23.0 | 8.0 | 700 | 0.25 | 50 | 8.4 | 83 |
| DFLZ12 | 12 | 21.0 | 9.0 | 700 | 0.25 | 5.0 | 9.1 | 76 |
| DFLZ13 | 13 | 19.0 | 10 | 700 | 0.25 | 5.0 | 9.9 | 69 |
| DFLZ15 | 15 | 17.0 | 14 | 700 | 0.25 | 5.0 | 11.4 | 61 |
| DFLZ16 | 16 | 15.5 | 16 | 700 | 0.25 | 5.0 | 12.2 | 57 |
| DFLZ18 | 18 | 14.0 | 20 | 750 | 0.25 | 5.0 | 13.7 | 50 |
| DFLZ20 | 20 | 12.5 | 22 | 750 | 0.25 | 5.0 | 15.2 | 45 |
| DFLZ22 | 22 | 11.5 | 23 | 750 | 0.25 | 5.0 | 16.7 | 41 |
| DFLZ24 | 24 | 10.5 | 25 | 750 | 0.25 | 5.0 | 18.2 | 38 |
| DFLZ27 | 27 | 9.5 | 35 | 750 | 0.25 | 5.0 | 20.6 | 34 |
| DFLZ30 | 30 | 8.5 | 40 | 1000 | 0.25 | 5.0 | 22.8 | 30 |
| DFLZ33 | 33 | 7.5 | 45 | 1000 | 0.25 | 5.0 | 25.1 | 27 |
| DFLZ36 | 36 | 7.0 | 50 | 1000 | 0.25 | 5.0 | 27.4 | 25 |
| DFLZ39 | 39 | 6.5 | 60 | 1000 | 0.25 | 5.0 | 29.7 | 23 |
| DFLZ43 | 43 | 6.0 | 70 | 1500 | 0.25 | 5.0 | 32.7 | 22 |
| DFLZ47 | 47 | 5.5 | 80 | 1500 | 0.25 | 5.0 | 35.8 | 19 |
| DFLZ51 | 51 | 5.0 | 95 | 1500 | 0.25 | 5.0 | 38.8 | 18 |
| DFLZ56 | 56 | 4.5 | 110 | 2000 | 0.25 | 5.0 | 42.6 | 16 |
| DFLZ62 | 62 | 4.0 | 125 | 2000 | 0.25 | 5.0 | 47.1 | 14 |
| DFLZ68 | 68 | 3.7 | 150 | 2000 | 0.25 | 5.0 | 51.7 | 13 |
| DFLZ75 | 75 | 3.3 | 175 | 2000 | 0.25 | 5.0 | 56.0 | 12 |
| DFLZ82 | 82 | 3.0 | 200 | 3000 | 0.25 | 5.0 | 62.2 | 11 |
| DFLZ91 | 91 | 2.8 | 250 | 3000 | 0.25 | 5.0 | 69.2 | 10 |
| DFLZ100 | 100 | 2.5 | 350 | 3000 | 0.25 | 5.0 | 76.0 | 9.0 |
| DFLZ110 | 110 | 2.3 | 450 | 4000 | 0.25 | 5.0 | 83.6 | 8.6 |
| DFLZ120 | 120 | 2.0 | 550 | 4500 | 0.25 | 5.0 | 91.2 | 7.8 |
| DFLZ130 | 130 | 1.9 | 700 | 5000 | 0.25 | 5.0 | 98.8 | 7.0 |
| DFLZ150 | 150 | 1.7 | 1000 | 6000 | 0.25 | 5.0 | 114.0 | 6.4 |
| DFLZ160 | 160 | 1.6 | 1100 | 6500 | 0.25 | 5.0 | 121.6 | 5.8 |
| DFLZ180 | 180 | 1.4 | 1200 | 7000 | 0.25 | 5.0 | 136.8 | 5.2 |
| DFLZ200 | 200 | 1.2 | 1500 | 8000 | 0.25 | 5.0 | 152.0 | 4.7 |