



Micro Commercial Components



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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

DFLZ5V1 THRU DFLZ100

1 Watt Zener Diode 5.1V - 100V Volts

Features

- Halogen free available upon request by adding suffix "-HF"
- 1.0W Power Dissipation
- High surge capability with 200W minimum peak pulse power under 10/1000 pulse
- Ideally Suited for Automatic Assembly
- Standard VZ Tolerance is +/- 5%
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

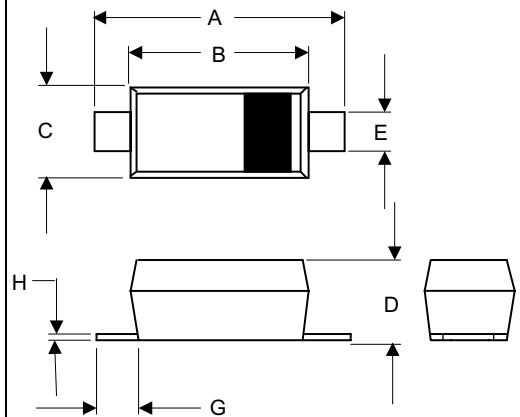
Maximum Ratings

- Storage Temperature Range(T_{STG}): -55°C to +150°C
- Operating Temperature Range(T_i): -55°C to +150°C

| | Symbol | Value | Units |
|---|------------|-----------|--------------------|
| Zener Current | I_{ZM} | P_d/V_z | mA |
| Power Dissipation @ $T_A=50^\circ\text{C}$ | P_{tot} | 1000 | mW |
| Forward Voltage @ $I_f = 200\text{mA}$ | VF | 1.2 | V |
| Junction to Soldering Point | R_{thJS} | 9 | $^\circ\text{C/W}$ |
| Thermal resistance | R_{thJA} | 110 | $^\circ\text{C/W}$ |

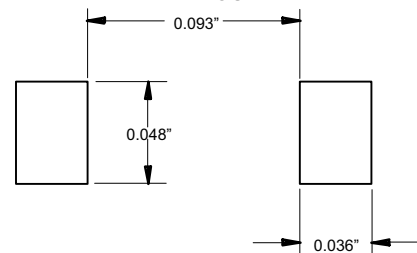
Note :1.High Temperature Solder Exemptions Applied,See EU Directive Annex 7.

SOD-123FL



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | .140 | .152 | 3.55 | 3.85 | |
| B | .100 | .122 | 2.55 | 3.10 | |
| C | .055 | .075 | 1.40 | 1.90 | |
| D | .035 | .053 | 0.90 | 1.35 | |
| E | .020 | .041 | 0.50 | 1.05 | |
| G | .010 | ----- | 0.25 | ----- | |
| H | ----- | .010 | ----- | .25 | |

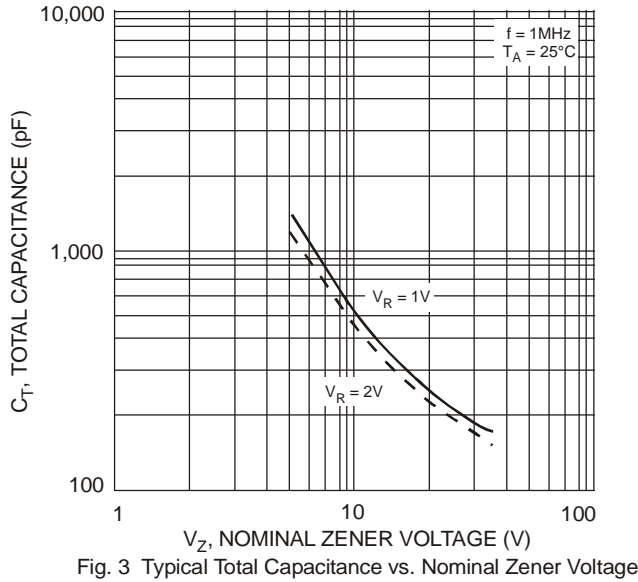
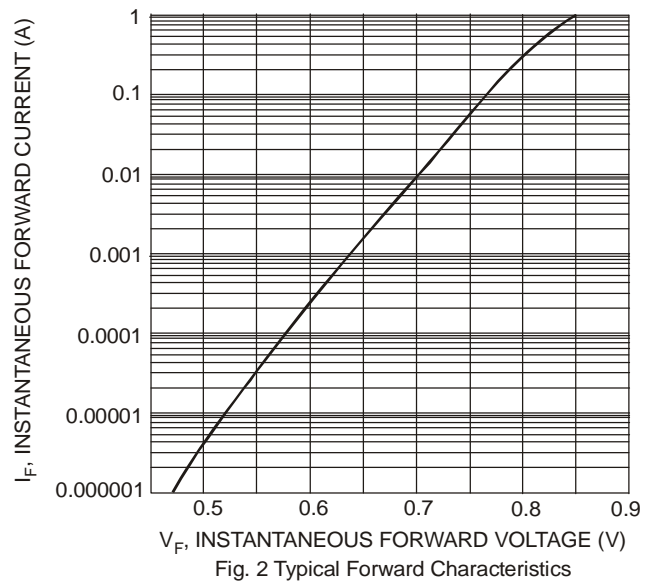
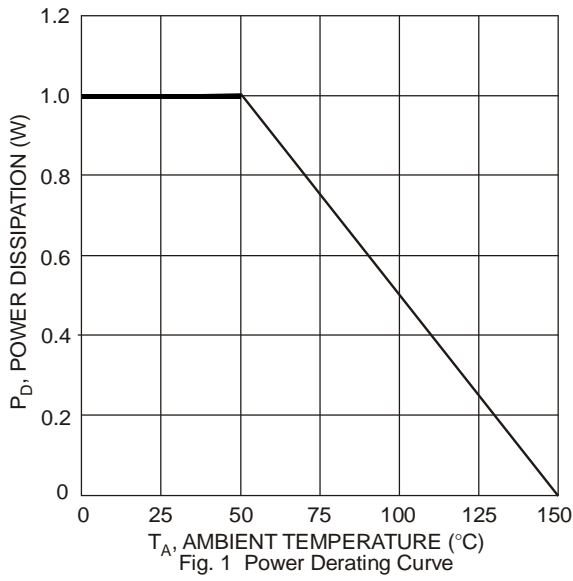
SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

| Part Number | Zener Voltage V_Z Voltages | | | | Maximum Zener Impedance $Z_{ZT}@I_{ZT}$ | Reverse Current $I_R(\text{Max}) @ V_R$ | | Marking |
|-------------|------------------------------------|------|-------|---------------------|--|--|-----------------|---------|
| | Nom | Min | Max | $I_{ZT}(\text{mA})$ | | $I_R(\mu\text{A})$ | $V_R(\text{V})$ | |
| DFLZ5V1 | 5.1 | 4.8 | 5.4 | 49 | 7 | 10 | 1.0 | 5V1 |
| DFLZ5V6 | 5.6 | 5.3 | 5.9 | 45 | 5 | 10 | 2.0 | 5V6 |
| DFLZ6V2 | 6.2 | 5.8 | 6.4 | 100 | 3 | 5 | 2.0 | 6V2 |
| DFLZ6V8 | 6.8 | 6.4 | 7.2 | 100 | 3 | 5 | 3.0 | 6V8 |
| DFLZ7V5 | 7.5 | 7.0 | 7.9 | 100 | 2 | 5 | 3.0 | 7V5 |
| DFLZ8V2 | 8.2 | 7.7 | 8.7 | 100 | 2 | 5 | 3.0 | 8V2 |
| DFLZ9V1 | 9.1 | 8.5 | 9.6 | 50 | 4 | 5 | 5.0 | 9V1 |
| DFLZ10 | 10 | 9.4 | 10.6 | 50 | 4 | 5 | 7.5 | Z10 |
| DFLZ11 | 11 | 10.4 | 11.6 | 50 | 7 | 4 | 8.2 | Z11 |
| DFLZ12 | 12 | 11.4 | 12.7 | 50 | 7 | 3 | 9.1 | Z12 |
| DFLZ13 | 13 | 12.4 | 14.1 | 50 | 10 | 2 | 10.0 | Z13 |
| DFLZ15 | 15 | 13.8 | 15.6 | 50 | 10 | 1 | 11.0 | Z15 |
| DFLZ16 | 16 | 15.3 | 17.1 | 25 | 15 | 1 | 12.0 | Z16 |
| DFLZ18 | 18 | 16.8 | 19.1 | 25 | 15 | 1 | 13.0 | Z18 |
| DFLZ20 | 20 | 18.8 | 21.2 | 25 | 15 | 1 | 15.0 | Z20 |
| DFLZ22 | 22 | 20.8 | 23.3 | 25 | 15 | 1 | 16.0 | Z22 |
| DFLZ24 | 24 | 22.8 | 25.6 | 25 | 15 | 1 | 18.0 | Z24 |
| DFLZ27 | 27 | 25.1 | 28.9 | 25 | 15 | 1 | 20.0 | Z27 |
| DFLZ30 | 30 | 28.0 | 32.0 | 25 | 15 | 1 | 22.0 | Z30 |
| DFLZ33 | 33 | 31.0 | 35.0 | 25 | 15 | 1 | 24.0 | Z33 |
| DFLZ36 | 36 | 34.0 | 38.0 | 10 | 40 | 1 | 27.0 | Z36 |
| DFLZ39 | 39 | 37.0 | 41.0 | 10 | 40 | 1 | 30.0 | Z39 |
| DFLZ43 | 43 | 40.8 | 45.2 | 6.0 | 70 | 5 | 32.7 | Z43 |
| DFLZ47 | 47 | 44.6 | 49.4 | 5.5 | 80 | 5 | 35.8 | Z47 |
| DFLZ51 | 51 | 48.4 | 53.6 | 5.0 | 95 | 5 | 38.8 | Z51 |
| DFLZ56 | 56 | 53.2 | 58.8 | 4.5 | 110 | 5 | 42.6 | Z56 |
| DFLZ62 | 62 | 58.9 | 65.1 | 4.0 | 125 | 5 | 47.1 | Z62 |
| DFLZ68 | 68 | 64.6 | 71.4 | 3.7 | 150 | 5 | 51.7 | Z68 |
| DFLZ75 | 75 | 71.2 | 78.8 | 3.3 | 175 | 5 | 56.0 | Z75 |
| DFLZ82 | 82 | 77.9 | 86.1 | 3.0 | 200 | 5 | 62.2 | Z82 |
| DFLZ91 | 91 | 86.4 | 95.6 | 2.8 | 250 | 5 | 69.2 | Z91 |
| DFLZ100 | 100 | 95.0 | 105.0 | 2.5 | 350 | 5 | 76.0 | Z100 |

Notes: 1. Short duration pulse test used to minimize self-heating effect.





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Ordering Information :

| Device | Packing |
|----------------|-------------------------|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel |

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.