



# THE DATASHEET OF DFLZ16-TP





Micro Commercial Components



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

DFLZ6V2
THRU
DFLZ39

Features

- Halogen free available upon request by adding suffix "-HF"
1.0W Power Dissipation
High Surge Capability
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(Tstg): -55°C to +150°C
Operating Temperature Range(Tj): -55°C to +150°C

Table with 4 columns: Parameter, Symbol, Value, Units. Rows include Zener Current, Power Dissipation, Forward Voltage, Junction to Soldering Point, and Thermal resistance.

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

1 Watt
Zener Diode
6.2V - 39V Volts

SOD-123FL

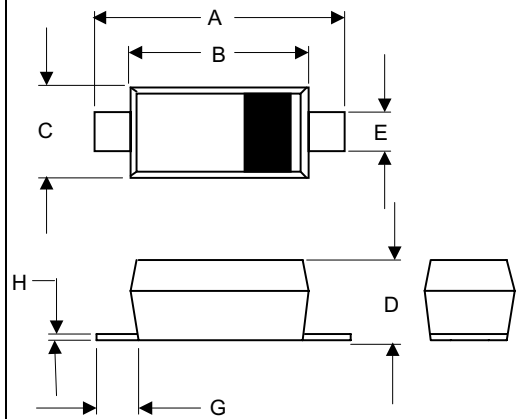
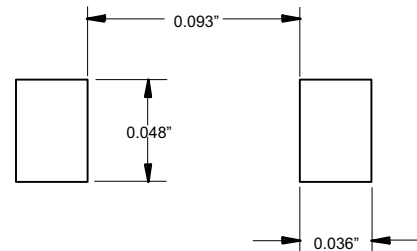


Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Lists dimensions A through H.

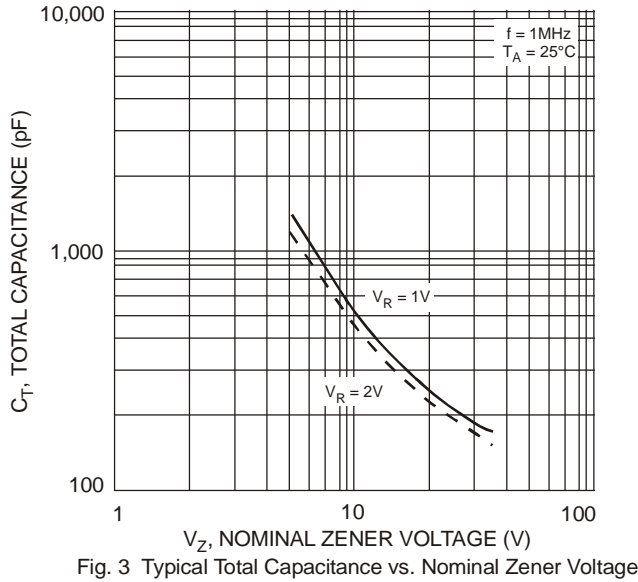
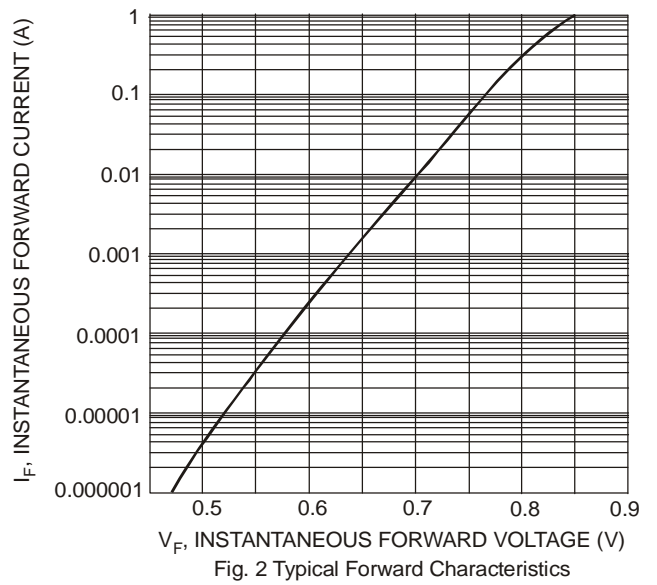
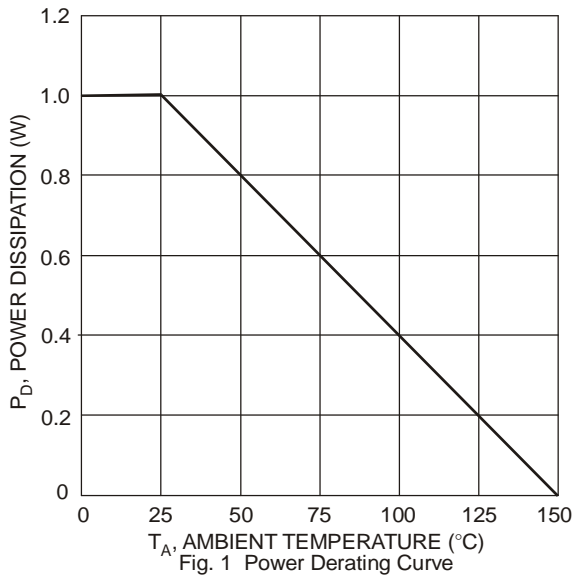
SUGGESTED SOLDER PAD LAYOUT



**Electrical Characteristics @ 25°C Unless Otherwise Specified**

| Part Number | Zener Voltage<br>$V_Z$<br>Voltages |       |       |                     | Maximum Zener<br>Impedance<br>$Z_{ZT}@I_{ZT}$ |                  | Reverse<br>Current<br>$I_R(\text{Max}) @ V_R$ |                 | Typical Temperature<br>Coefficient<br>$@I_{ZTC}(\%/^{\circ}\text{C})$ |      | Marking |
|-------------|------------------------------------|-------|-------|---------------------|---|------------------|---|-----------------|---|------|---------|
|             | Nom                                | Min   | Max   | $I_{ZT}(\text{mA})$ | Typ ( $\Omega$ )                              | Max ( $\Omega$ ) | $I_R(\mu\text{A})$                            | $V_R(\text{V})$ | Min   | Max  |         |
| DFLZ6V2     | 6.20                               | 5.80  | 6.40  | 100                 | 1.0   | 3.0              | 5   | 2.0             | -0.01   | 0.06 | 6V2     |
| DFLZ6V8     | 6.80                               | 6.40  | 7.20  | 100                 | 1.0   | 3.0              | 5   | 3.0             | 0   | 0.07 | 6V8     |
| DFLZ7V5     | 7.50                               | 7.00  | 7.90  | 100                 | 1.0   | 2.0              | 5   | 3.0             | 0   | 0.07 | 7V5     |
| DFLZ8V2     | 8.20                               | 7.70  | 8.70  | 100                 | 1.0   | 2.0              | 5   | 3.0             | 0.03  | 0.08 | 8V2     |
| DFLZ9V1     | 9.10                               | 8.50  | 9.60  | 50                  | 1.0   | 4.0              | 5   | 5.0             | 0.03  | 0.08 | 9V1     |
| DFLZ10      | 10.00                              | 9.40  | 10.60 | 50                  | 1.0   | 4.0              | 5   | 7.5             | 0.05  | 0.09 | Z10     |
| DFLZ11      | 11.00                              | 10.40 | 11.60 | 50                  | 1.0   | 7.0              | 4   | 8.2             | 0.05  | 0.10 | Z11     |
| DFLZ12      | 12.00                              | 11.40 | 12.70 | 50                  | 1.0   | 7.0              | 3   | 9.1             | 0.05  | 0.10 | Z12     |
| DFLZ13      | 13.00                              | 12.40 | 14.10 | 50                  | 1.0   | 10.0             | 2   | 10.0            | 0.05  | 0.10 | Z13     |
| DFLZ15      | 15.00                              | 13.80 | 15.60 | 50                  | 1.0   | 10.0             | 1   | 11.0            | 0.05  | 0.10 | Z15     |
| DFLZ16      | 16.00                              | 15.30 | 17.10 | 25                  | 1.0   | 15.0             | 1   | 12.0            | 0.06  | 0.11 | Z16     |
| DFLZ18      | 18.00                              | 16.80 | 19.10 | 25                  | 2.0   | 15.0             | 1   | 13.0            | 0.06  | 0.11 | Z18     |
| DFLZ20      | 20.00                              | 18.80 | 21.20 | 25                  | 3.0   | 15.0             | 1   | 15.0            | 0.06  | 0.11 | Z20     |
| DFLZ22      | 22.00                              | 20.80 | 23.30 | 25                  | 3.0   | 15.0             | 1   | 16.0            | 0.06  | 0.11 | Z22     |
| DFLZ24      | 24.00                              | 22.80 | 25.60 | 25                  | 2.0   | 15.0             | 1   | 18.0            | 0.06  | 0.11 | Z24     |
| DFLZ27      | 27.00                              | 25.10 | 28.90 | 25                  | 3.0   | 15.0             | 1   | 20.0            | 0.06  | 0.11 | Z27     |
| DFLZ30      | 30.00                              | 28.00 | 32.00 | 25                  | 8.0   | 15.0             | 1   | 22.0            | 0.06  | 0.11 | Z30     |
| DFLZ33      | 33.00                              | 31.00 | 35.00 | 25                  | 5.0   | 15.0             | 1   | 24.0            | 0.06  | 0.11 | Z33     |
| DFLZ36      | 36.00                              | 34.00 | 38.00 | 10                  | 5.0   | 40.0             | 1   | 27.0            | 0.06  | 0.11 | Z36     |
| DFLZ39      | 39.00                              | 37.00 | 41.00 | 10                  | 5.0   | 40.0             | 1   | 30.0            | 0.06  | 0.11 | Z39     |

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





TM

Micro Commercial Components

### Ordering Information :

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

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

#### \*\*\*IMPORTANT NOTICE\*\*\*

**Micro Commercial Components Corp.** reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights ,nor the rights of others . The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

#### \*\*\*LIFE SUPPORT\*\*\*

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.



#### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

[www.mccsemi.com](http://www.mccsemi.com)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View DFLZ16-TP on WIN SOURCE](#)
-  [Micro Commercial Co](#) Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management