



THE DATASHEET OF DFLZ39-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 V_z Tolerance is $\pm 5\%$
- 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

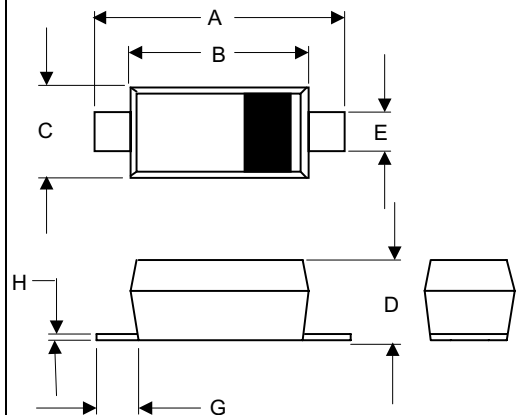
- Storage Temperature Range (T_{STG}): -55°C to $+150^{\circ}\text{C}$
- Operating Temperature Range (T_j): -55°C to $+150^{\circ}\text{C}$

	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 @ $I_F = 200\text{mA}$	V_F	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.

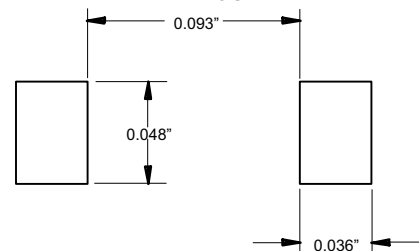
1 Watt Zener Diode 6.2V - 39V Volts

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 $I_R(\text{Max}) @ V_R$		Typical Temperature Coefficient @ $I_{ZTC}(\%/^{\circ}\text{C})$		Marking
	Nom	Min	Max	$I_{ZT}(\text{mA})$	Typ (Ω)	Max (Ω)	$I_R(\mu\text{A})$	$V_R(\text{V})$	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.

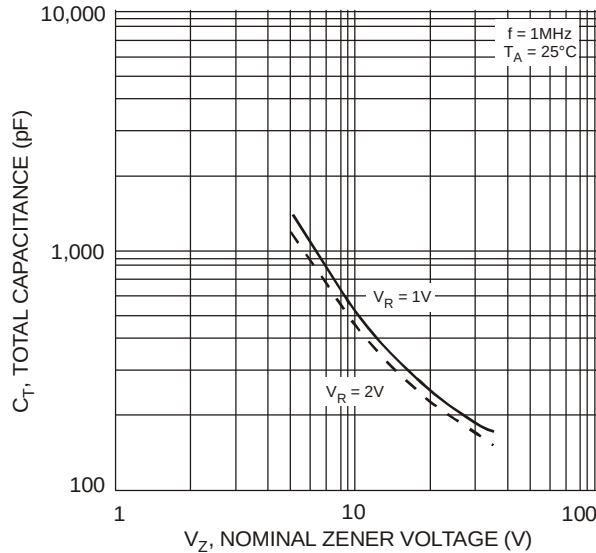
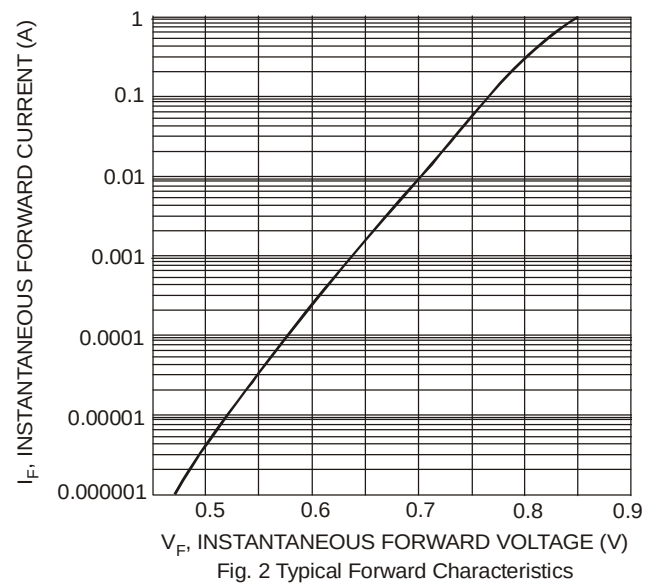
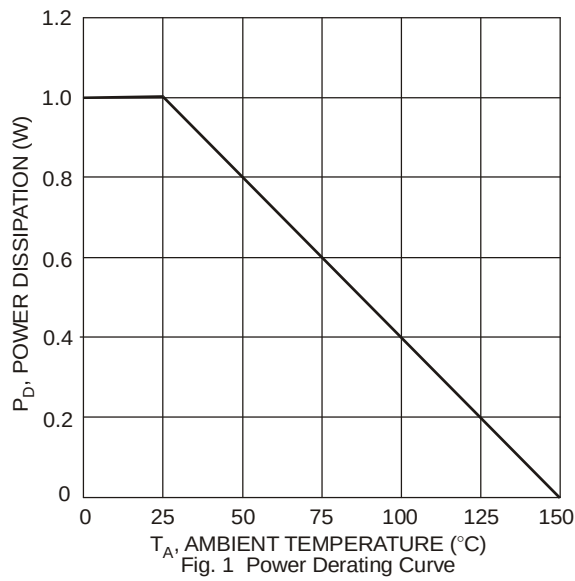


Fig. 3 Typical Total Capacitance vs. Nominal Zener Voltage

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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