



Micro Commercial Components



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# 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)

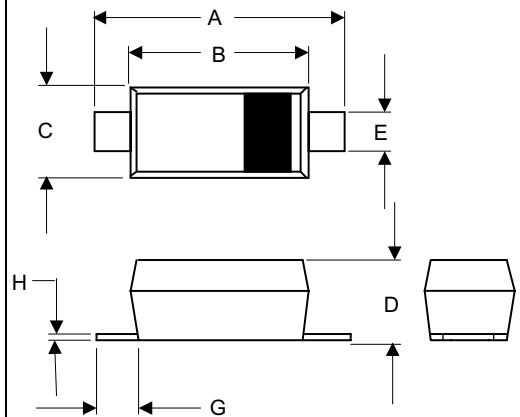
### Maximum Ratings

- 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	$^\circ\text{C/W}$

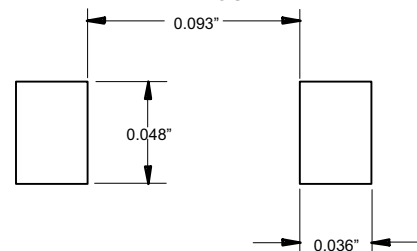
Note :1.High Temperature Solder Exemptions Applied,See EU Directive Annex 7.

### 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	

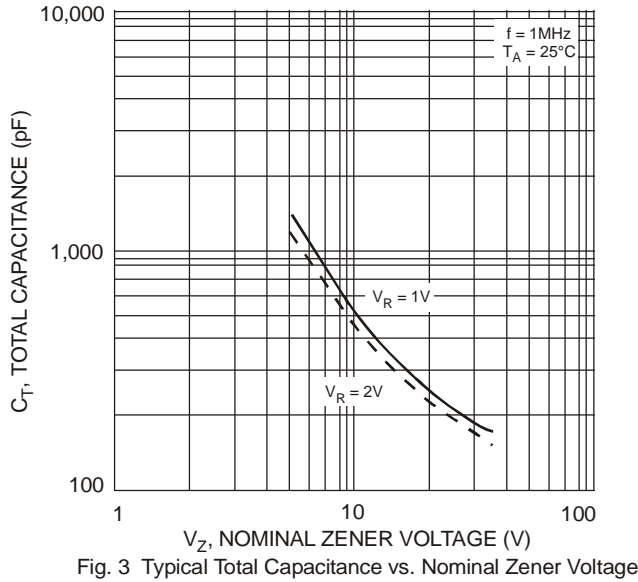
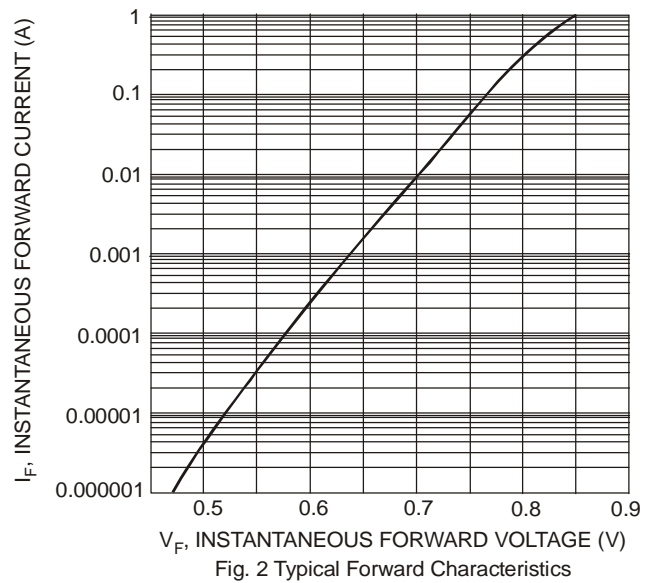
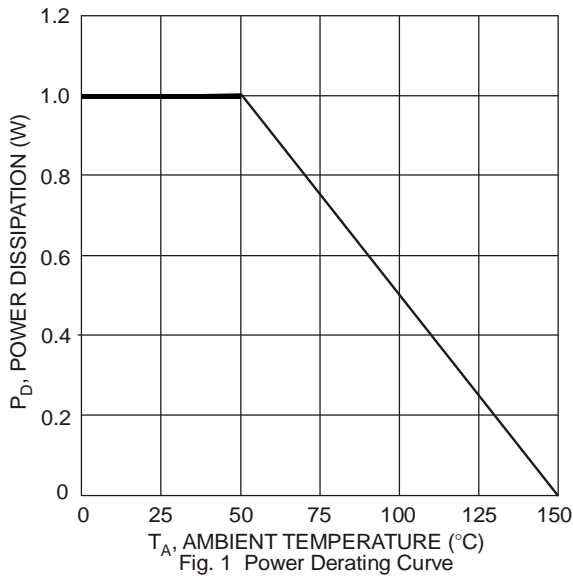
### SUGGESTED SOLDER PAD LAYOUT



**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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