

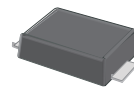
Features

- Ideally Suited for Automatic Assembly
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

**1 Watt
Zener Diode
3.3V - 330V Volts**

Maximum Ratings

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range : -55°C to +150°C
- Thermal Resistance : 110 °C/W Junction to Ambient
- Thermal Resistance: 9°C/W Junction to Soldering Point



SOD-123

Parameter	Symbol	Rating	Conditions
Zener Current	I_{ZM}	P_d/V_z (mA)	
Power Dissipation	P_{tot}	1.0W	$T_A=50^{\circ}C$
Forward Voltage	V_F	1.2V	$I_F=200mA$

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Characteristics at Ta = 25°C

Type	Marking	Zener Voltage Range ⁽¹⁾				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V _{ZT} (at I _{ZT})			I _{ZT}	Z _{ZT} (at I _{ZT})	I _R	at V _R	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max (μA)	(V)	I _{ZM} (mA)
DFLZ 3V3	FHD	3.10	3.3	3.50	75	10	100	1	285
DFLZ 3V6	FHE	3.40	3.6	3.80	69	10	100	1	263
DFLZ 3V9	FHF	3.70	3.9	4.10	64	9.0	50	1	243
DFLZ 4V3	FHG	4.06	4.3	4.56	58	9.0	25	1	219
DFLZ 4V7	FHJ	4.50	4.7	4.93	53	8.0	10	1	203
DFLZ 5V1	FHK	4.84	5.1	5.36	49	7.0	10	1	186
DFLZ 5V6	FHL	5.32	5.6	5.92	45	5.0	10	2	170
DFLZ 6V2	FHN	5.86	6.2	6.51	41	2.0	10	3	154
DFLZ 6V8	FHO	6.46	6.8	7.18	37	3.5	10	4	140
DFLZ 7V5	FHQ	7.12	7.5	7.88	34	4.0	10	5	127
DFLZ 8V2	FHR	7.79	8.2	8.67	31	4.5	10	6	116
DFLZ 9V1	FHT	8.60	9.1	9.59	28	5.0	10	7	104
DFLZ 10	FHU	9.50	10	10.5	25	7.0	10	7	95
DFLZ 11	FHV	10.4	11	11.6	23	8.0	5	8	86
DFLZ 12	FHW	11.4	12	12.6	21	9.0	5	9	79
DFLZ 13	FHX	12.4	13	14.1	19	10	5	10	71
DFLZ 15	FHZ	13.8	15	15.8	17	14	5	11	63
DFLZ 16	FJA	15.2	16	17.1	16	16	5	12	58
DFLZ 18	FJF	16.8	18	19.2	14	20	5	13	52
DFLZ 20	FJG	19.0	20	21.2	13	22	5	15	47
DFLZ 22	FJK	20.8	22	23.3	12	23	5	17	43
DFLZ 24	FJL	22.8	24	26.0	11	25	5	18	38
DFLZ 27	FJN	25.3	27	28.9	9.5	35	5	21	35
DFLZ 30	FJQ	28.2	30	32.0	8.5	40	5	23	31
DFLZ 33	FJR	31.3	33	34.9	7.5	45	5	25	28
DFLZ 36	FJS	34.2	36	37.9	7.0	50	5	27	26
DFLZ 39	FJT	37.2	39	41.5	6.5	60	5	30	24
DFLZ 43	FLG	40.9	43	45.6	6.0	70	1	32	22
DFLZ 47	FLJ	44.9	47	49.8	5.5	80	1	35	20
DFLZ 51	FLK	48.6	51	54.0	5.0	95	1	38	18
DFLZ 56	FLL	53.6	56	58.8	4.5	110	1	42	17
DFLZ 62	FLN	58.9	62	65.6	4.0	125	1	47	15
DFLZ 68	FLO	64.6	68	71.7	3.7	150	1	52	14
DFLZ 75	FLQ	71.2	75	78.8	3.3	175	1	56	12
DFLZ 82	FLR	77.9	82	87.0	3.0	200	1	62	11
DFLZ 91	FLT	86.0	91	96.0	2.8	250	1	69	10
DFLZ 100	FLU	95.0	100	105	2.5	350	1	76	9.5
DFLZ 110	FLV	104	110	116	2.3	450	1	84	8.6
DFLZ 120	FLW	114	120	127	2.0	550	1	91	7.8
DFLZ 135	FLX	125	135	142	1.9	700	1	100	7.0
DFLZ 150	FLZ	140	150	157	1.7	900	1	110	6.3
DFLZ 165	FPA	155	165	172	1.6	1100	1	120	5.8
DFLZ 180	FPF	170	180	191	1.4	1200	1	135	5.2
DFLZ 200	FPG	189	200	211	1.2	1400	1	150	4.7
DFLZ 220	FPK	209	220	231	1.0	1600	1	165	4.3
DFLZ 240	FPL	229	240	251	1.0	1800	1	180	3.9
DFLZ 260	FPM	249	260	271	1.0	2000	1	190	3.7
DFLZ 280	FPN	269	280	291	1.0	2100	1	205	3.4
DFLZ 300	FPQ	289	300	315	1.0	2300	1	230	3.1
DFLZ 330	FLR	313	330	346	1.0	2500	1	250	2.8

 (1) V_{ZT} is tested with pulses (20 ms)

Silicon Planar Zener Diodes

Curve Characteristics

Fig. 1 - Power Derating Curve

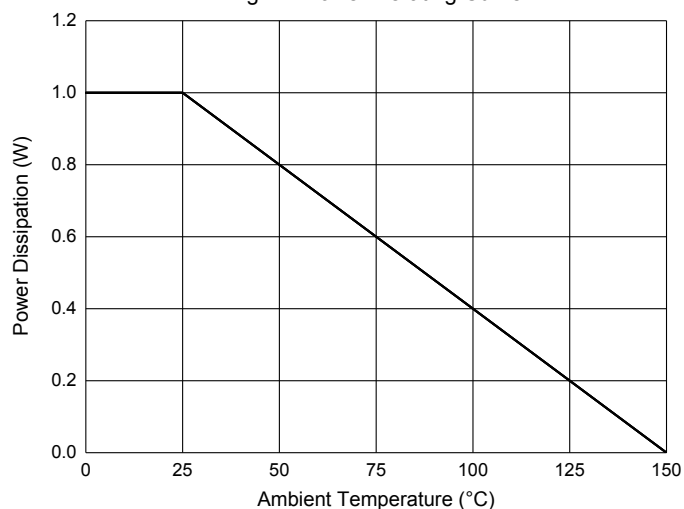
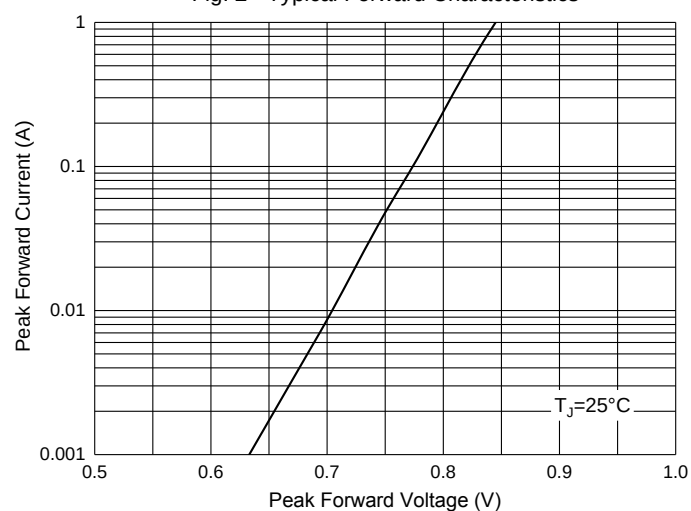
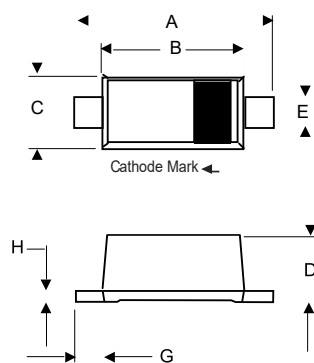


Fig. 2 - Typical Forward Characteristics



Package information

SOD-123



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.130	0.152	3.30	3.85	
B	0.100	0.122	2.55	3.10	
C	0.055	0.075	1.40	1.90	
D	0.035	0.053	0.90	1.35	
E	0.020	0.041	0.50	1.05	
G	0.010	----	0.25	----	
H	----	0.010	----	0.25	

SUGGESTED SOLDER PAD LAYOUT

