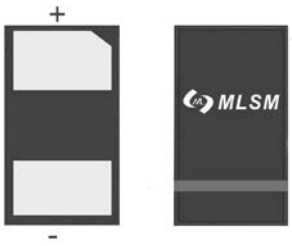
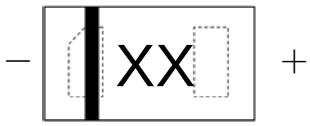
Features

- Ultra-Small Leadless Surface Mount Package
- Ideally Suited fou Automated Assembly Processes



DFN1006-2L bottom view

Schematic diagram



XX:Marking Code

Marking and pin assignment

Pb-Free RoHS Halogen-Free

Maximum Ratings(T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_F	Forward Voltage (Note 1) @ I_F = 10mA	0.9	V
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient Air	1250	°C/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

T_a=25℃ unless otherwise specified

Typt Number	Marking Code	Zener Voltage Range (Note1)				Maximum Zener Impedance (Note 2)			Maximum Reverse Leakage Current		Typical Temperature Coefficent @I_{ZTC} mV/°C		Test Current I_{ZTC}
		V_Z@L_{ZT}			I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}	I_{ZK}	I_R	V_R			
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V	Min	Max	mA
DW52C2V4LED02	WX	2.4	2.2	2.6	5	100	600	1.0	50	1.0	-3.5	0	5.0
DW52C2V7LED02	W1	2.7	2.5	2.9	5	100	600	1.0	20	1.0	-3.5	0	5.0
DW52C3V0LED02	W2	3.0	2.8	3.2	5	95	600	1.0	10	1.0	-3.5	0	5.0
DW52C3V3LED02	W3	3.3	3.1	3.5	5	95	600	1.0	5.0	1.0	-3.5	0	5.0
DW52C3V6LED02	W4	3.6	3.4	3.8	5	90	600	1.0	5.0	1.0	-3.5	0	5.0
DW52C3V9LED02	W5	3.9	3.7	4.1	5	90	600	1.0	3.0	1.0	-3.5	0	5.0
DW52C4V3LED02	W6	4.3	4.0	4.6	5	90	600	1.0	3.0	1.0	-3.5	0	5.0
DW52C4V7LED02	W7	4.7	4.4	5.0	5	80	500	1.0	3.0	2.0	-3.5	0.2	5.0
DW52C5V1LED02	9Y	5.1	4.8	5.4	5	60	480	1.0	2.0	2.0	-2.7	1.2	5.0
DW52C5V6LED02	9A	5.6	5.2	6.0	5	40	400	1.0	1.0	2.0	-2.0	2.5	5.0
DW52C6V2LED02	9B	6.2	5.8	6.6	5	10	150	1.0	3.0	4.0	0.4	3.7	5.0
DW52C6V8LED02	9C	6.8	6.4	7.2	5	15	80	1.0	2.0	4.0	1.2	4.5	5.0
DW52C7V5LED02	9D	7.5	7.0	7.9	5	15	80	1.0	1.0	5.0	2.5	5.3	5.0
DW52C8V2LED02	9E	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0	3.2	6.2	5.0
DW52C9V1LED02	9F	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0	3.8	7.0	5.0
DW52C10LED02	9G	10	9.4	10.6	5	20	150	1.0	0.2	7.0	4.5	8.0	5.0
DW52C11LED02	9H	11	10.4	11.6	5	20	150	1.0	0.1	8.0	5.4	9.0	5.0
DW52C12LED02	9J	12	11.4	12.7	5	25	150	1.0	0.1	8.0	6.0	10.0	5.0
DW52C13LED02	9K	13	12.4	14.1	5	30	170	1.0	0.1	8.0	7.0	11.0	5.0
DW52C15LED02	9L	15	13.8	15.6	5	30	200	1.0	0.1	10.5	9.2	13.0	5.0
DW52C16LED02	9M	16	15.3	17.1	5	40	200	1.0	0.1	11.2	10.4	14.0	5.0
DW52C18LED02	9N	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16.0	5.0
DW52C20LED02	9P	20	18.8	21.2	5	55	225	1.0	0.1	14.0	14.4	18.0	5.0
DW52C22LED02	9R	22	20.8	23.3	5	55	250	1.0	0.1	15.4	16.4	20.0	5.0
DW52C24LED02	9S	24	22.8	25.6	5	70	250	1.0	0.1	16.8	18.4	22.0	5.0
DW52C27LED02	9T	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3	2.0
DW52C30LED02	9U	30	28.0	32.0	2	80	300	0.5	0.1	21.0	24.4	29.4	2.0
DW52C33LED02	9V	33	31.0	35.0	2	80	325	0.5	0.1	23.1	27.4	33.4	2.0
DW52C36LED02	9W	36	34.0	38.0	2	90	350	0.5	0.1	25.2	36.5	37.4	2.0
DW52C39LED02	9X	39	37.0	41.0	2	130	350	0.5	0.1	27.3	36.8	41.2	2.0
DW52C43LED02	9Z	43	40.0	46.0	2	150	700	0.5	0.1	32	10	12.0	5.0
DW52C47LED02	8Z	47	44.0	50.0	2	170	700	0.5	0.1	32.9	-	-	-
DW52C51LED02	8-	51	48.0	54.0	2	180	700	0.5	0.1	35.7	-	-	-
DW52C56LED02	8=	56	52.0	60.0	2	200	700	0.5	0.1	39.2	-	-	-
DW52C62LED02	8≡	62	58.0	66.0	2	215	700	0.5	0.1	43.4	-	-	-
DW52C68LED02	8＞	68	64.0	72.0	2	240	700	0.5	0.1	47.6	-	-	-
DW52C75LED02	8＜	75	70.0	79.0	2	255	700	0.5	0.1	52.5	-	-	-

Typical Characteristics

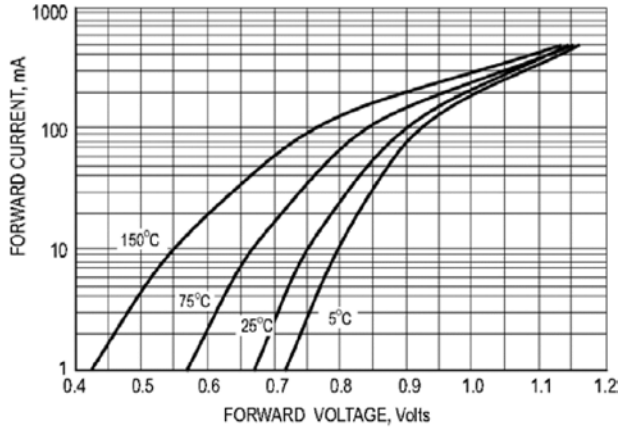


Fig.1 TYPICAL FORWARD VOLTAGE

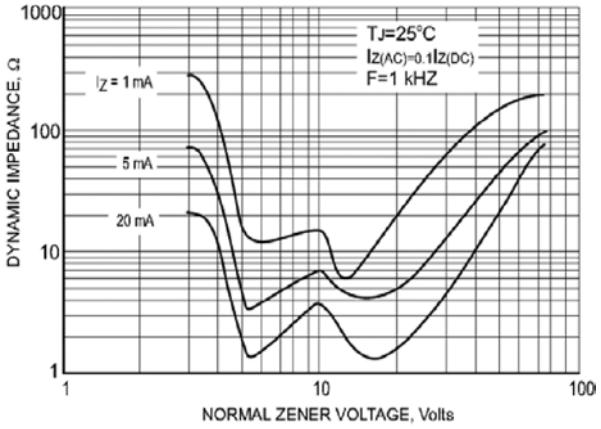


Fig.2 EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

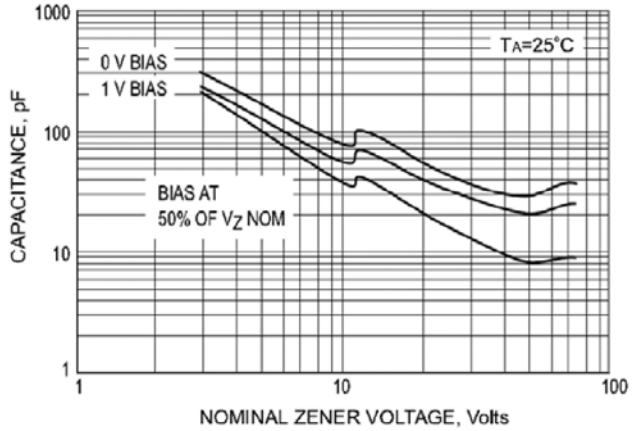


Fig.3 TYPICAL CAPACITANCE

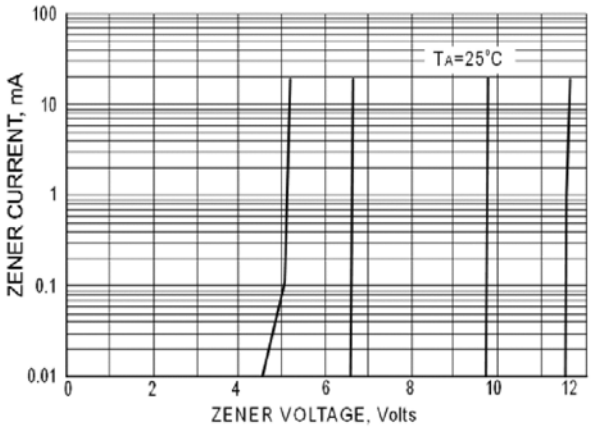


Fig.4 ZENER BREAKDOWN CHARACTERISTICS

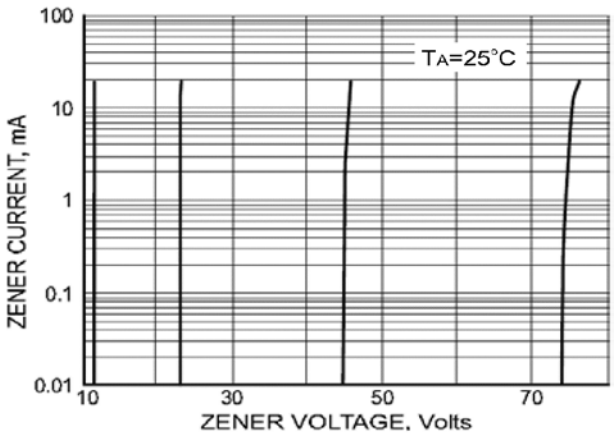


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

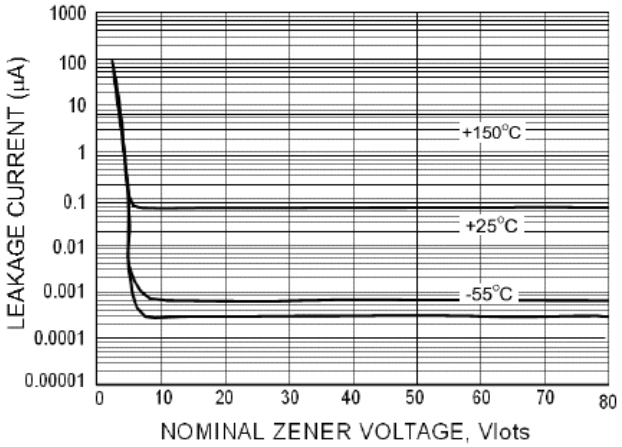
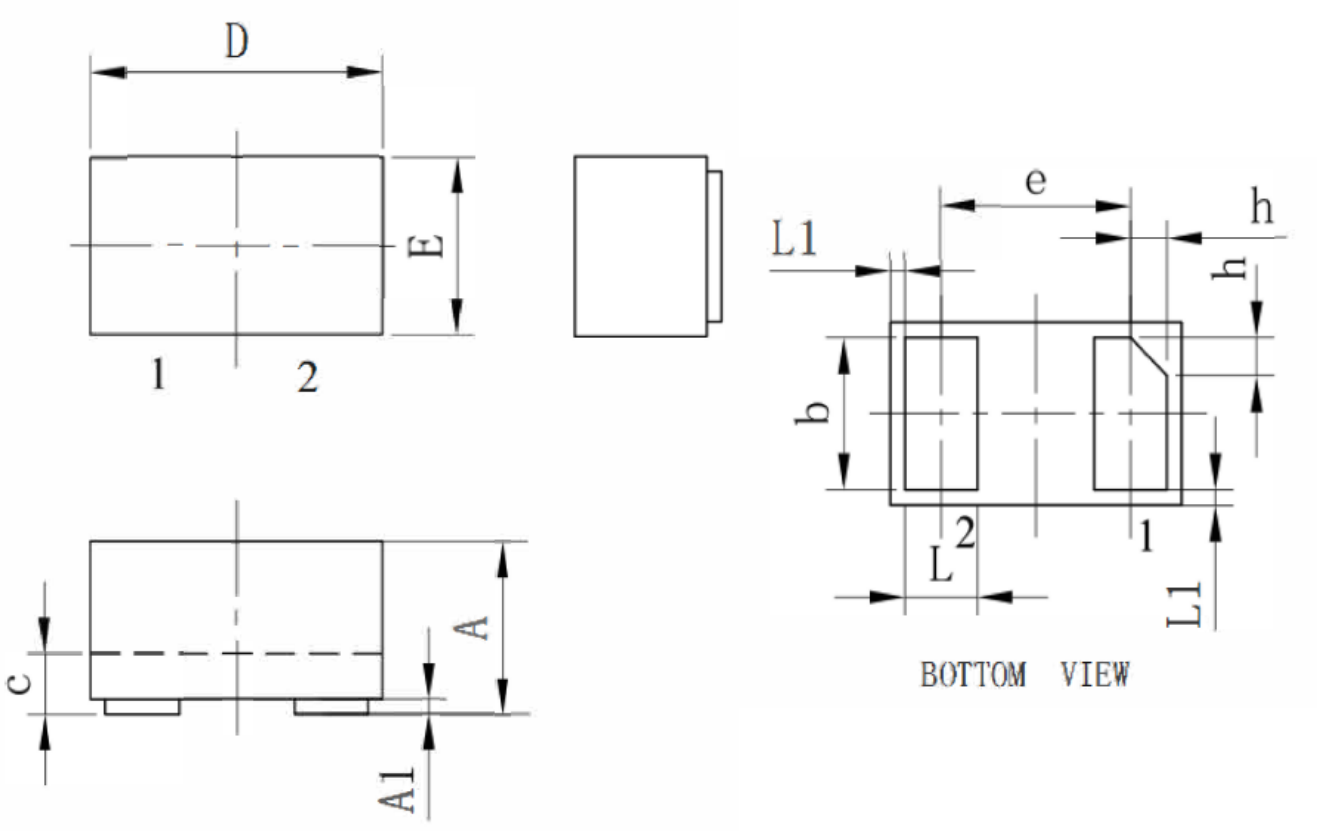


Fig.6 TYPICAL LEAKGE CURRENT

DFN1006-2L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.450	0.550	0.018	0.022
A1	0.000	0.050	0.000	0.002
b	0.450	0.550	0.018	0.022
c	0.120	0.180	0.005	0.007
D	0.950	1.050	0.037	0.041
e	0.65BSC		0.65BSC	
E	0.550	0.650	0.022	0.026
L	0.200	0.300	0.008	0.012
L1	0.05REF		0.05REF	
h	0.070	0.170	0.003	0.007