



Micro Commercial Components



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DL5918B THRU DL5942B

1.5 Watt Zener Diode 5.1 to 51 Volts

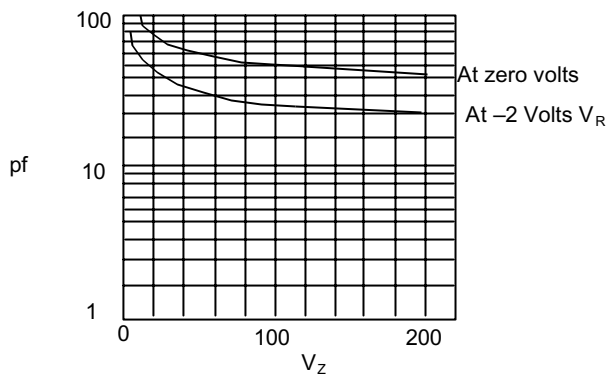
Features

- Wide Voltage Range Available
- Glass Package
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Marking : Cathode band.
- Moisture Sensitivity Level 1

Maximum Ratings

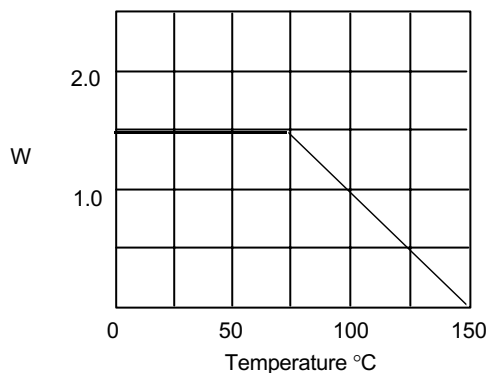
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- 1.5 Watt DC Power Dissipation
- Power Derating: 20 mW/°C above 75°C
- Forward Voltage @ 200mA: 1.2 Volts

Figure 1 - Typical Capacitance



Typical Capacitance (pf) – versus – Zener voltage (V_Z)

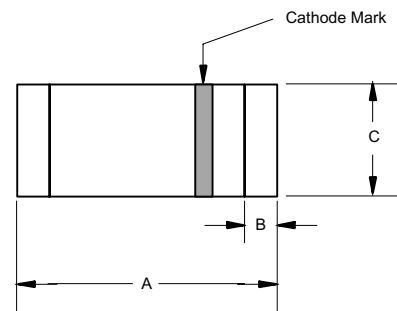
Figure 2 - Derating Curve



Power Dissipation (W) - Versus - Ambient Temperature °C

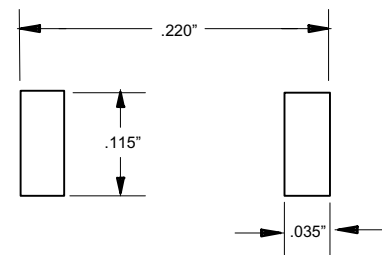
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

MELF



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.190	.205	4.80	5.20	
B	---	.022	---	.55	Nominal
C	.095	.105	2.40	2.67	∅

SUGGESTED SOLDER PAD LAYOUT



ELECTRICAL CHARACTERISTICS @25°C

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MCC PART NUMBER	ZENER VOLTAGE V_Z	TEST CURRENT I_{ZT}	MAXIMUM DYNAMIC IMPEDANCE Z_{ZT} @ I_{ZT}	KNEE CURRENT I_{ZK}	KNEE IMPEDANCE Z_{ZK}	MAXIMUM REVERSE CURRENT I_R	REVERSE VOLTAGE V_R	MAXIMUM DC CURRENT I_{ZM}
	VOLTS	mA	OHMS	mA	OHMS	μ A	VOLTS	mA
DL5918B	5.1	73.5	4.0	1.0	350	5.0	2.0	294
DL5919B	5.6	66.9	2.0	1.0	250	5.0	3.0	267
DL5920B	6.2	60.5	2.0	1.0	200	5.0	4.0	241
DL5921B	6.8	55.1	2.5	1.0	200	5.0	5.2	220
DL5922B	7.5	50	3.0	0.5	400	5.0	6.0	200
DL5923B	8.2	45.7	3.5	0.5	400	5.0	6.5	182
DL5924B	9.1	41.2	4.0	0.5	500	5.0	7.0	164
DL5925B	10	37.5	4.5	0.25	500	5.0	8.0	150
DL5926B	11	34.1	5.5	0.25	550	1.0	8.4	125
DL5927B	12	31.2	6.5	0.25	550	1.0	9.1	125
DL5928B	13	28.8	7.0	0.25	550	1.0	9.9	115
DL5929B	15	25	9.0	0.25	600	1.0	11.4	100
DL5930B	16	23.4	10	0.25	600	1.0	12.2	93
DL5931B	18	20.8	12	0.25	650	1.0	13.7	83
DL5932B	20	18.7	14	0.25	650	1.0	15.2	75
DL5933B	22	17	17.5	0.25	650	1.0	16.7	68
DL5934B	24	15.6	19	0.25	700	1.0	18.2	62
DL5935B	27	13.9	23	0.25	700	1.0	20.6	55
DL5936B	30	12.5	28	0.25	750	1.0	22.8	50
DL5937B	33	11.4	33	0.25	800	1.0	25.1	45
DL5938B	36	10.4	38	0.25	850	1.0	27.4	41
DL5939B	39	9.6	45	0.25	900	1.0	29.7	38
DL5940B	43	8.7	53	0.25	950	1.0	32.7	34
DL5941B	47	8.0	67	0.25	1000	1.0	35.8	31
DL5942B	51	7.3	70	0.25	1100	1.0	38.8	29

Note 1: Suffix B indicates a 5% tolerance on nominal V_Z , Suffix C denotes a 2% tolerance.

2: Zener voltage(V_Z) measured at $T_L = 30^\circ\text{C}$. Voltage measurement to be performed 20 seconds after application of DC current.

3: The Zener impedance is derived from the 60 Hz ac voltage, which results when an ac current having an rms value equal to 10% of the DC Zener current(I_{ZT} or I_{ZK}) is superimposed on I_{ZT} or I_{ZK} .



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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