

**Micro Commercial Components** 



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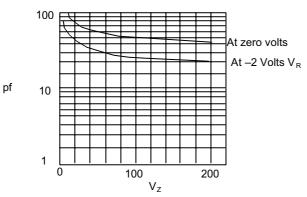
## **Features**

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

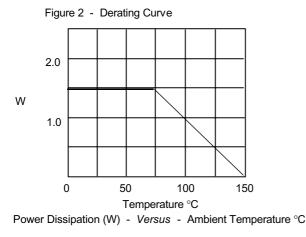
## **Maximum Ratings**

- 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



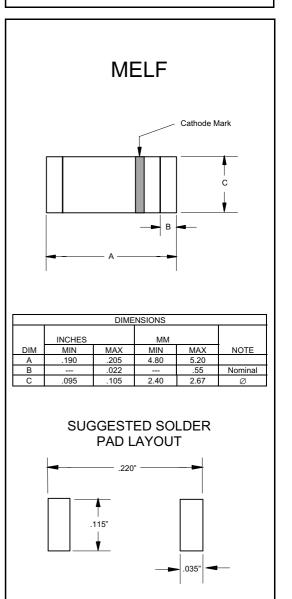


Typical Capacitance (pf) - versus - Zener voltage (V<sub>Z</sub>)





# 1.5 Watt Zener Diode 5.1 to 51 Volts



# www.mccsemi.com

# DL5918B thru DL5942B



## **ELECTRICAL CHARACTERISTICS @25°C**

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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	KNEE   IMPEDANCE Z <sub>ZK</sub> OHMS   350   250   200   200   400   500	$\begin{array}{c} \text{MAXIMUM} \\ \text{REVERSE} \\ \text{CURRENT} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	$\begin{array}{c} \text{REVERSE} \\ \text{VOLTAGE} \\ \text{V}_{\text{R}} \\ \hline \\ \hline \\ \text{VOLTS} \\ \hline \\ 2.0 \\ \hline \\ 3.0 \\ \hline \\ 4.0 \\ \hline \\ 5.2 \\ \hline \\ 6.0 \\ \hline \\ 6.5 \\ \end{array}$	MAXIMUM DC CURRENT Izm mA 294 267 241 220 200
DL5918B 5.1 73.5 4.0 1.0   DL5919B 5.6 66.9 2.0 1.0   DL5920B 6.2 60.5 2.0 1.0   DL5921B 6.8 55.1 2.5 1.0   DL5922B 7.5 50 3.0 0.5	350 250 200 200 400 400 500	5.0 5.0 5.0 5.0 5.0 5.0 5.0	2.0 3.0 4.0 5.2 6.0	294 267 241 220
DL5919B 5.6 66.9 2.0 1.0   DL5920B 6.2 60.5 2.0 1.0   DL5921B 6.8 55.1 2.5 1.0   DL5922B 7.5 50 3.0 0.5	250 200 200 400 400 500	5.0 5.0 5.0 5.0 5.0 5.0	3.0 4.0 5.2 6.0	267 241 220
DL5920B 6.2 60.5 2.0 1.0   DL5921B 6.8 55.1 2.5 1.0   DL5922B 7.5 50 3.0 0.5	200 200 400 400 500	5.0 5.0 5.0 5.0 5.0 5.0	4.0 5.2 6.0	241 220
DL5921B 6.8 55.1 2.5 1.0   DL5922B 7.5 50 3.0 0.5	200 400 400 500	5.0 5.0 5.0 5.0	5.2 6.0	220
DL5922B 7.5 50 3.0 0.5	400 400 500	5.0 5.0	6.0	
	400 500	5.0		200
DL5923B 8.2 45.7 3.5 0.5	500		65	
			0.0	182
DL5924B 9.1 41.2 4.0 0.5		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: No suffix indicates a 20% tolerance on nominal V<sub>z</sub>, Suffix A denotes a 10% tolerance, B denotes a 5% tolerance, C denotes a 2% tolerance.
  - 2: Zener voltage(V<sub>Z</sub>) measured at  $T_L = 30^{\circ}$ 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  $I_{ZK}$ .



## **Ordering Information :**

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

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