

DL5221B thru DL5267B



Micro Commercial Components

MCC PART NUMBER	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT} VOLTS	TEST CURRENT I_{ZT} mA	MAXIMUM ZENER IMPEDANCE 'B' SUFFIX ONLY		MAXIMUM REVERSE LEAKAGE CURRENT		MAX. ZENER VOLTAGE TEMP COEFFICIENT 'B' SUFFIX ONLY % / °C
			Z_{ZT} @ I_{ZT}	Z_{ZK} @ $I_{ZK} = 0.25mA$	I_R @	V_R	
			OHMS	OHMS	μA	VOLTS	
DL5221B	2.4	20	30	1200	100	1.0	-0.085
DL5222B	2.5	20	30	1250	100	1.0	-0.085
DL5223B	2.7	20	30	1300	75	1.0	-0.080
DL5224B	2.8	20	30	1400	75	1.0	-0.080
DL5225B	3.0	20	29	1600	50	1.0	-0.075
DL5226B	3.3	20	28	1600	25	1.0	-0.070
DL5227B	3.6	20	24	1700	15	1.0	-0.065
DL5228B	3.9	20	23	1900	10	1.0	-0.060
DL5229B	4.3	20	22	2000	5.0	1.0	± 0.055
DL5230B	4.7	20	19	1900	5.0	2.0	± 0.030
DL5231B	5.1	20	17	1600	5.0	2.0	± 0.030
DL5232B	5.6	20	11	1600	5.0	3.0	+0.038
DL5233B	6.0	20	7.0	1600	5.0	3.5	+0.038
DL5234B	6.2	20	7.0	1000	5.0	4.0	+0.045
DL5235B	6.8	20	5.0	750	3.0	5.0	+0.050
DL5236B	7.5	20	6.0	500	3.0	6.0	+0.058
DL5237B	8.2	20	8.0	500	3.0	6.5	+0.062
DL5238B	8.7	20	8.0	600	3.0	6.5	+0.065
DL5239B	9.1	20	10	600	3.0	7.0	+0.068
DL5240B	10	20	17	600	3.0	8.0	+0.075
DL5241B	11	20	22	600	2.0	8.4	+0.076
DL5242B	12	20	30	600	1.0	9.1	+0.077
DL5243B	13	9.5	13	600	0.5	9.9	+0.079
DL5244B	14	9.0	15	600	0.1	10	+0.082
DL5245B	15	8.5	16	600	0.1	11	+0.082
DL5246B	16	7.8	17	600	0.1	12	+0.083
DL5247B	17	7.4	19	600	0.1	13	+0.084
DL5248B	18	7.0	21	600	0.1	14	+0.085
DL5249B	19	6.6	23	600	0.1	14	+0.086
DL5250B	20	6.2	25	600	0.1	15	+0.086
DL5251B	22	5.6	29	600	0.1	17	+0.087
DL5252B	24	5.2	33	600	0.1	18	+0.088
DL5253B	25	5.0	35	600	0.1	19	+0.089
DL5254B	27	4.6	41	600	0.1	21	+0.090
DL5255B	28	4.5	44	600	0.1	21	+0.091
DL5256B	30	4.2	49	600	0.1	23	+0.091
DL5257B	33	3.8	58	700	0.1	25	+0.092
DL5258B	36	3.4	70	700	0.1	27	+0.093
DL5259B	39	3.2	80	800	0.1	30	+0.094
DL5260B	43	3.0	93	900	0.1	33	+0.095
DL5261B	47	2.7	105	1000	0.1	36	+0.095
DL5262B	51	2.5	125	1100	0.1	39	+0.096
DL5263B	56	2.2	150	1300	0.1	43	+0.096
DL5264B	60	2.1	170	1400	0.1	46	+0.097
DL5265B	62	2.0	185	1400	0.1	47	+0.097
DL5266B	68	1.8	230	1600	0.1	52	+0.097
DL5267B	75	1.7	270	1700	0.1	56	+0.098

NOTE 1: Table as shown lists type numbers, which indicate a tolerance of $\pm 5\%$ with guaranteed limits on only V_Z , I_R , and V_F . Devices with guaranteed limits on all six parameters are indicated by suffix "C" for $\pm 2\%$ tolerance

NOTE 2: The electrical characteristics are measured after allowing the device to stabilize for 20 seconds.

NOTE 3: Temperature coefficient (α_{VZ}). Test conditions for temperature coefficient are as follows:

- a. $I_{ZT} = 7.5mA$, $T_1 = 25^\circ C$, $T_2 = 125^\circ C$ (DL5221 thru DL5242)
- b. $I_{ZT} = \text{Rated } I_{ZT}$, $T_1 = 25^\circ C$, $T_2 = 125^\circ C$ (DL5243 thru DL5267)

Device to be temperature stabilized with current applied prior to reading breakdown voltage at the specified ambient temperature.

Characteristics ($T_j=25^\circ\text{C}$ unless otherwise specified)

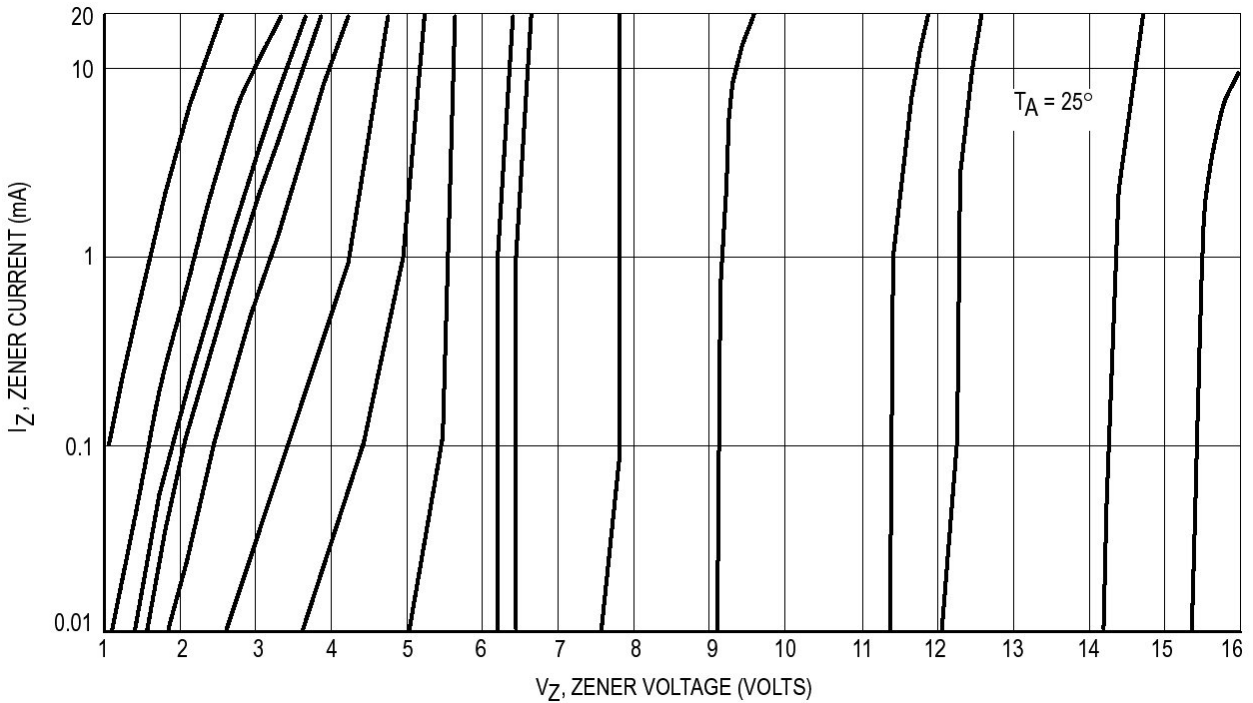


Figure 1. Zener Voltage versus Zener Current – $V_Z=1$ thru 16 Volts

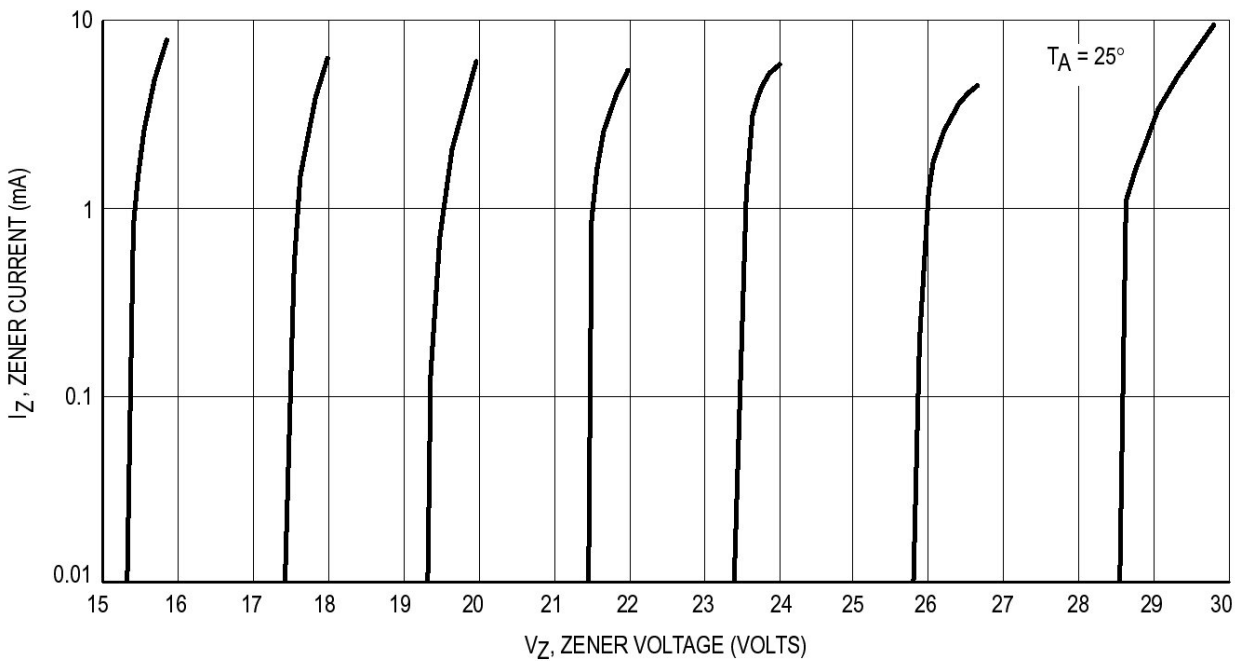


Figure 2. Zener Voltage versus Zener Current – $V_Z=15$ thru 30 Volts

DL5221B thru DL5267B

Characteristics (T_j=25°C unless otherwise specified)

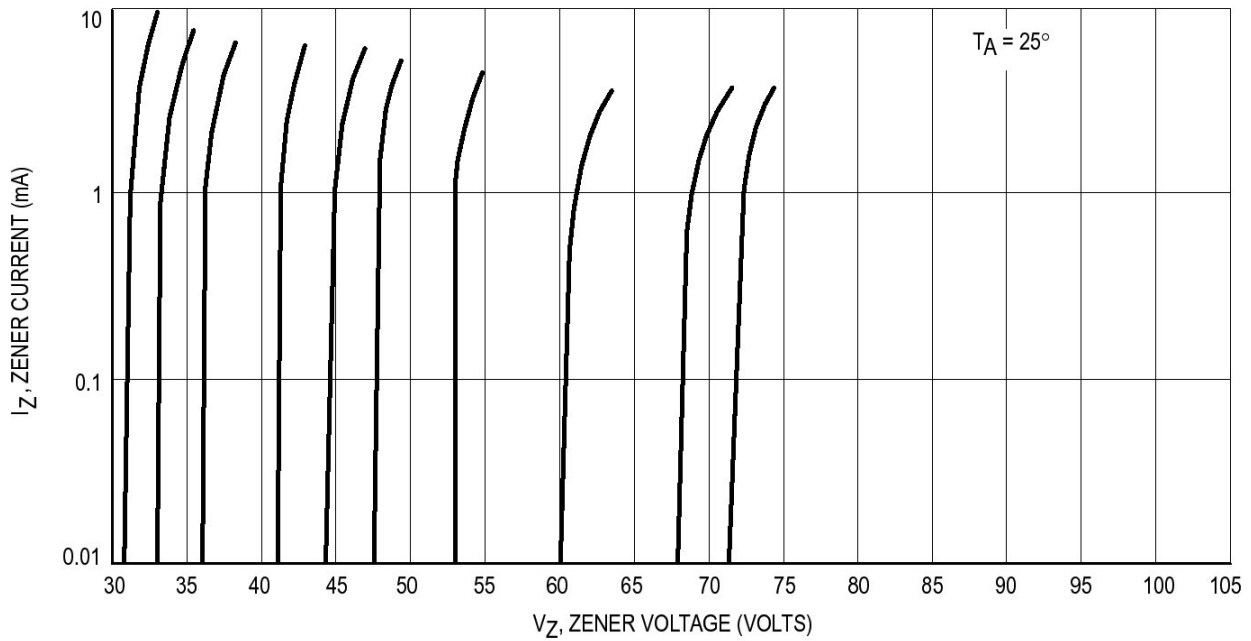


Figure 3. Zener Voltage versus Zener Current – Vz=30 thru 75 Volts

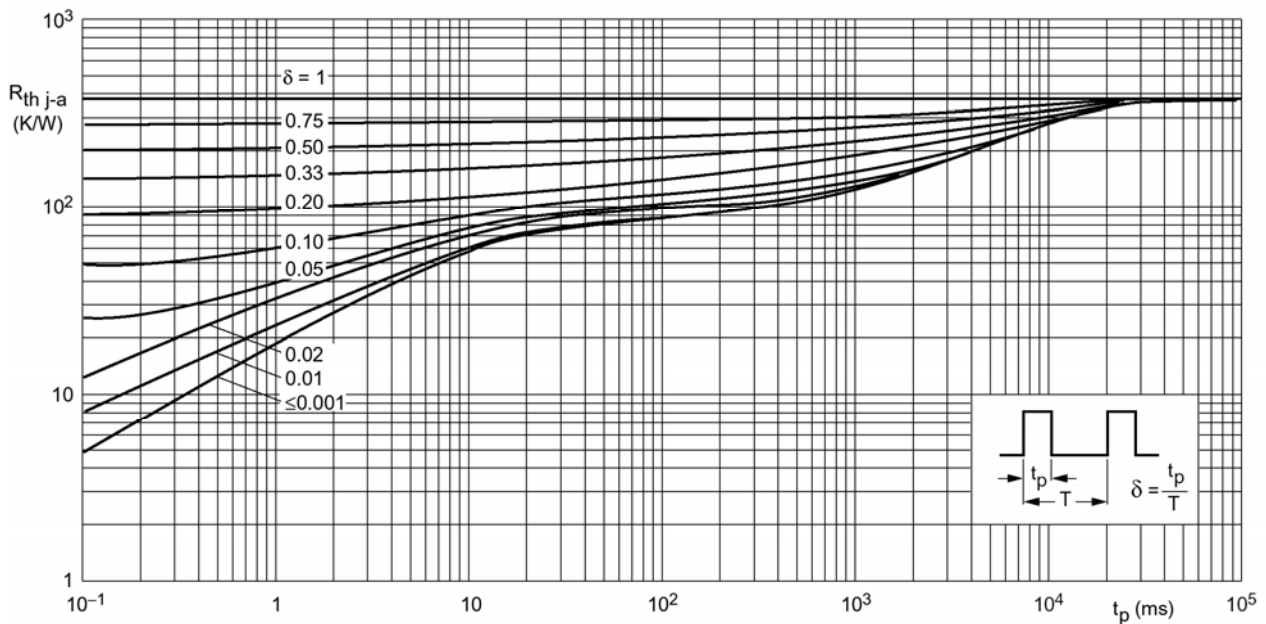


Figure 4. Thermal resistance from junction to ambient as a function of pulse duration



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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 2.5Kpcs/Reel

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