

Micro Commercial Components



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Features

- Wide Voltage Range Available
- Glass Package
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Surface Mount Package
- Marking : Cathode band denotes polarity
 Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C
- 500 mWatt DC Power Dissipation
- Power Derating: 4.0mW/°C above 50°C
- Forward Voltage @ 200mA: 1.1 Volts
- Moisture Sensitivity Level 1



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



Note:1.Lead in Glass Exemption Applied, see EU Directive Annex 5.



500 mW Zener Diode 2.4 to 75 Volts



DL5221 thru DL5267



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MCC PART NUMBER	NOMINAL ZENER VOLTAGE Vz @ Izt	TEST CURRENT I _{ZT}	$\begin{array}{c} \mbox{MAXIMUM ZENER IMPEDANCE} \\ \mbox{`B' SUFFIX ONLY} \\ \mbox{Z}_{ZT} \textcircled{0} \mbox{l_{ZT}} \\ \mbox{Z_{ZT}} \textcircled{0} \mbox{l_{ZT}} \\ \mbox{Z_{ZK}} \textcircled{0} \mbox{l_{ZK}} = 0.25 \mbox{mA} \end{array}$		MAXIMUM REVERSE LEAKAGE CURRENT I _R @ V _R		MAX. ZENER VOLTAGE TEMP COEFFICIENT 'B' SUFFIX ONLY	
	VOLTS	mA	OHMS	OHMS	μA	VOLTS	% / °C	
DL5221	2.4	20	30	1200	100	1.0	-0.085	
DL5222	2.5	20	30	1250	100	1.0	-0.085	
DL5223	2.7	20	30	1300	75	1.0	-0.080	
DL5224	2.8	20	30	1400	75	1.0	-0.080	
DL5225	3.0	20	29	1600	50	1.0	-0.075	
DL5226	3.3	20	28	1600	25	1.0	-0.070	
DL5227	3.6	20	24	1700	15	1.0	-0.065	
DL5228	3.9	20	23	1900	10	1.0	-0.060	
DL5229	4.3	20	22	2000	5.0	1.0	±0.055	
DL5230	4.7	20	19	1900	5.0	2.0	±0.030	
DL5231	5.1	20	17	1600	5.0	2.0	±0.030	
DL5232	5.6	20	11	1600	5.0	3.0	+0.038	
DL5233	6.0	20	7.0	1600	5.0	3.5	+0.038	
DL5234	6.2	20	7.0	1000	5.0	4.0	+0.045	
DL5235	6.8	20	5.0	750	3.0	5.0	+0.050	
DL5236	7.5	20	6.0	500	3.0	6.0	+0.058	
DL5237	8.2	20	8.0	500	3.0	6.5	+0.062	
DL5238	8.7	20	8.0	600	3.0	6.5	+0.065	
DL5239	9.1	20	10	600	3.0	7.0	+0.068	
DL5240	10	20	17	600	3.0	8.0	+0.075	
DL5241	11	20	22	600	2.0	8.4	+0.076	
DL5242	12	20	30	600	1.0	9.1	+0.077	
DL5243	13	9.5	13	600	0.5	9.9	+0.079	
DL5244	14	9.0	15	600	0.1	10	+0.082	
DL5245	15	8.5	16	600	0.1	11	+0.082	
DL5246	16	7.8	17	600	0.1	12	+0.083	
DL5247	17	7.4	19	600	0.1	13	+0.084	
DL5248	18	7.0	21	600	0.1	14	+0.085	
DL5249	19	6.6	23	600	0.1	14	+0.086	
DL5250	20	6.2	25	600	0.1	15	+0.086	
DL5251	22	5.6	29	600	0.1	17	+0.087	
DL5252	24	5.2	33	600	0.1	18	+0.088	
DL5253	25	5.0	35	600	0.1	19	+0.089	
DL5254	27	4.6	41	600	0.1	21	+0.090	
DL5255	28	4.5	44	600	0.1	21	+0.091	
DL5256	30	4.2	49	600	0.1	23	+0.091	
DL5257	33	3.8	58	700	0.1	25	+0.092	
DL5258	36	3.4	70	700	0.1	27	+0.093	
DL5259	39	3.2	80	800	0.1	30	+0.094	
DL5260	<u>43</u> 47	3.0 2.7	93	900	0.1	33	+0.095	
DL5261			105	1000	0.1	36	+0.095	
DL5262	51	2.5	125	1100	0.1	39	+0.096	
DL5263	56	2.2	150	1300	0.1	43	+0.096	
DL5264	60	2.1	170	1400	0.1	46	+0.097	
DL5265	62	2.0	185	1400	0.1	47	+0.097	
DL5266	68	1.8	230	1600	0.1	52	+0.097	
DL5267	75	1.7	270	1700	0.1	56	+0.098	

NOTE 1: Table as shown lists type numbers, which indicate a tolerance of ±20% with guaranteed limits on only Vz, I_R, and V_F. Devices with guaranteed limits on all six parameters are indicated by suffix "A" for ±10%, "B" for ±5%, "C" for ±2% tolerance NOTE 2: The electrical characteristics are measured after allowing the device to stabilize for 20 seconds.

NOTE 3: Temperature coefficient (\dot{a}_{VZ}). Test conditions for temperature coefficient are as follows:

a.

 l_{2T} = 7.5mA, T₁ = 25°C T₂ = 125°C (DL5221 thru DL5242) l_{2T} = Rated l_{2T} , T₁ = 25°C, T₂ = 125°C (DL5243 thru DL5267) b.

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

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DL5221 thru DL5267



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

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

DL5221 thru DL5267





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





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



Ordering Information :

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

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DL5225B-TP DL5231B-T	P DL5234B-TH	DL5222B-TH	DL5244B-TR	DL5256B-TR	DL5236B-T	DL5238B-TP
DL5250B-TP DL5247B-TP	DL5232B-TP	DL5237B-TP	DL5253B-TP	DL5258B-TP	DL5251B-TP	DL5242B-TP
DL5262B-TP DL5226B-TP	DL5228B-TP	DL5227B-TP	DL5245B-TP	DL5241B-TP	DL5235B-TP	DL5261B-TP
DL5240B-TP DL5257B-TP	DL5230B-TP	DL5249B-TP	DL5229B-TP	DL5248B-TP	DL5243B-TP	DL5252B-TP
DL5221B-TP DL5239B-TP	DL5259B-TP	DL5246B-TP	DL5260B-TP	DL5254B-TP	DL5233B-TP	DL5223B-TP
DL5224B-TP DL5255B-TP	DL5267B-TP	DL5263B-TP	DL5264B-TP	DL5265B-TP	DL5266B-TP	