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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components
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DL4728 THRU DL4761

1 Watt Zener Diode 3.3 to 75 Volts

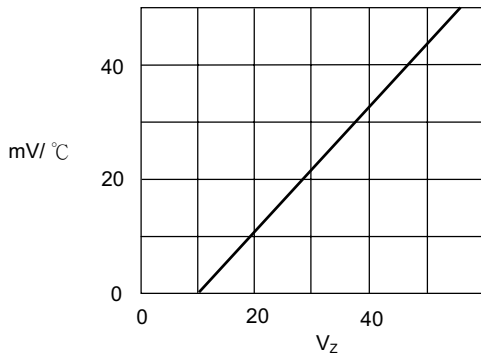
Features

- High Reliability
- Very Sharp Reverse Characteristic
- Low Reverse Current Level
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Moisture Sensitivity Level 1

Maximum Ratings

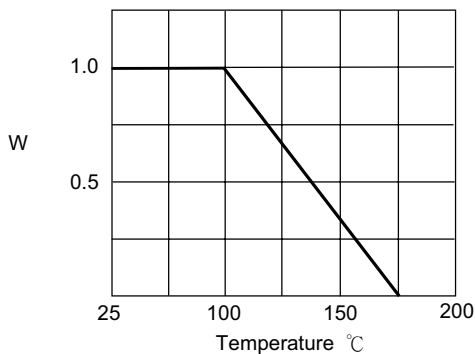
- Operating Temperature: -65 °C to +175 °C
- Storage Temperature: -65 °C to +175 °C
- 1 Watt DC Power Dissipation
- Maximum Thermal Resistance: 100K/W Junction To Ambient
 Test Conditions: $I = 9.5\text{mm}(3/8")$, $T_L = \text{constant}$
- Maximum Forward Voltage @ 200mA: 1.2 Volts

Figure 1 - Typical Temperature Coefficient



Typical Temperature Coefficient (mV/°C) – versus – Zener Voltage (V_z)

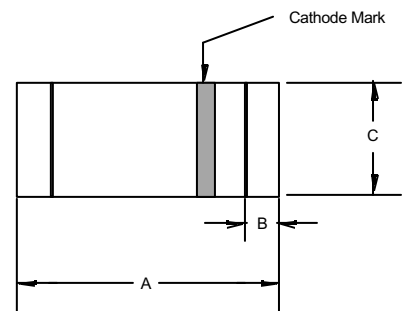
Figure 2 - Derating Curve



Power Dissipation (W) - Versus - Temperature °C

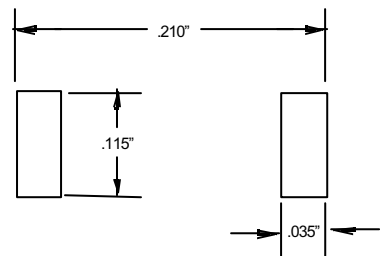
Notes: 1. Lead in Glass Exemption Applied, see EU Directive Annex Notes 5.

GLASS MELF



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



DL4728 thru DL4761

ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	ZENER VOLTAGE V_Z VOLTS	TEST CURRENT I_{ZT} mA	MAXIMUM DYNAMIC IMPEDANCE $Z_{ZT} @ I_{ZT}$ OHMS	MAXIMUM REVERSE CURRENT $I_R @ V_R$ μ A	TEST VOLTAGE V_R VOLTS	MAXIMUM REGULATOR CURRENT I_{ZM} TA = 50°C mA	MAXIMUM KNEE IMPEDANCE $Z_{ZK} @ I_{ZK}$ OHMS	TEST CURRENT I_{ZK} mA	MAXIMUM SURGE CURRENT I_S mA
DL4728	3.3	76	10	100	1	276	400	1.0	1280
DL4729	3.6	69	10	100	1	252	400	1.0	1260
DL4730	3.9	64	9	50	1	234	400	1.0	1190
DL4731	4.3	58	9	10	1	217	400	1.0	1070
DL4732	4.7	53	8	10	1	193	500	1.0	970
DL4733	5.1	49	7	10	1	178	550	1.0	890
DL4734	5.6	45	5	10	2	162	600	1.0	810
DL4735	6.2	41	2	10	3	146	700	1.0	730
DL4736	6.8	37	3.5	10	4	133	700	1.0	660
DL4737	7.5	34	4.0	10	5	121	700	0.5	605
DL4738	8.2	31	4.5	10	6	110	700	0.5	550
DL4739	9.1	28	5.0	10	7	100	700	0.5	500
DL4740	10	25	7	10	7.6	91	700	0.25	454
DL4741	11	23	8	5	8.4	83	700	0.25	414
DL4742	12	21	9	5	9.1	76	700	0.25	380
DL4743	13	19	10	5	9.9	69	700	0.25	344
DL4744	15	17	14	5	11.4	61	700	0.25	304
DL4745	16	15.5	16	5	12.2	57	700	0.25	285
DL4746	18	14	20	5	13.7	50	750	0.25	250
DL4747	20	12.5	22	5	15.2	45	750	0.25	225
DL4748	22	11.5	23	5	16.7	41	750	0.25	205
DL4749	24	10.5	25	5	18.2	38	750	0.25	190
DL4750	27	9.5	35	5	20.6	34	750	0.25	170
DL4751	30	8.5	40	5	22.8	30	1000	0.25	150
DL4752	33	7.5	45	5	25.1	27	1000	0.25	135
DL4753	36	7.0	50	5	27.4	25	1000	0.25	125
DL4754	39	6.5	60	5	29.7	23	1000	0.25	115
DL4755	43	6.0	70	5	32.7	22	1500	0.25	110
DL4756	47	5.5	80	5	35.8	19	1500	0.25	95
DL4757	51	5.0	95	5	38.8	18	1500	0.25	90
DL4758	56	4.5	110	5	42.6	16	2000	0.25	80
DL4759	62	4.0	125	5	47.1	14	2000	0.25	70
DL4760	68	3.7	150	5	51.7	13	2000	0.25	65
DL4761	75	3.3	175	5	56.0	12	2000	0.25	60

NOTE 1 The JEDEC type numbers shown have A 5% tolerance on nominal zener voltage.

No suffix signifies 10% tolerance, A signifies 5% tolerance, C signifies 2% tolerance.

NOTE 2 The zener impedance is derived from the 60Hz 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} . Zener impedance is measured at two points to insure a sharp knee on the breakdown curve and eliminate unstable units.

NOTE 3 The reverse surge current is measured at 25°C ambient using a 1/2 square wave or equivalent sine wave pulse 1/120 second duration superimposed on I_{ZT}

NOTE 4 Voltage measurements to be performed 90 seconds after application of DC current.



TM

Micro Commercial Components

Ordering Information :

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

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