Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

- **TEMPERATURE COMPENSATED ZENER REFERENCE DIODES**
- **LEADLESS PACKAGE FOR SURFACE MOUNT**
- **8.5 VOLT NOMINAL ZENER VOLTAGE ± 5%**
- **LOW CURRENT RANGE: 0.5 TO 1.0 mA**
- **METALLURGICALLY BONDED**
- **DOUBLE PLUG CONSTRUCTION**

CDLL4775 thru CDLL4784A

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
DC Power Dissipation: 500mW @ +50°C
Power Derating: 4 mW / °C above +50°C

REVERSE LEAKAGE CURRENT

I_R = 10μ A @ 25°C & V_R = 6Vdc

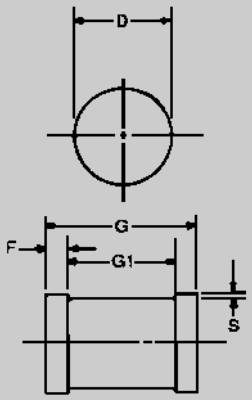
ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

CDI TYPE NUMBER	ZENNER VOLTAGE V_Z @ I_{ZT} (Note 3)	ZENER TEST CURRENT I_{ZT}	MAXIMUM DYNAMIC IMPEDANCE Z_{ZT} (Note 1)	VOLTAGE TEMPERATURE STABILITY $^3V_{ZT}$ MAXIMUM (Note 2)	TEMPERATURE RANGE	EFFECTIVE TEMPERATURE COEFFICIENT
	VOLTS	mA	OHMS	mV	°C	% / °C
CDLL4775	8.5	0.5	200	64	0 to + 75	0.01
CDLL4775A	8.5	0.5	200	132	-55 to + 100	0.01
CDLL4776	8.5	0.5	200	32	0 to + 75	0.005
CDLL4776A	8.5	0.5	200	66	-55 to + 100	0.005
CDLL4777	8.5	0.5	200	13	0 to + 75	0.002
CDLL4777A	8.5	0.5	200	26	-55 to + 100	0.002
CDLL4778	8.5	0.5	200	6.4	0 to + 75	0.001
CDLL4778A	8.5	0.5	200	13	-55 to + 100	0.001
CDLL4779	8.5	0.5	200	3.2	0 to + 75	0.0005
CDLL4779A	8.5	0.5	200	6.6	-55 to + 100	0.0005
CDLL4780	8.5	1.0	100	64	0 to + 75	0.01
CDLL4780A	8.5	1.0	100	132	-55 to + 100	0.01
CDLL4781	8.5	1.0	100	32	0 to + 75	0.005
CDLL4781A	8.5	1.0	100	66	-55 to + 100	0.005
CDLL4782	8.5	1.0	100	13	0 to + 75	0.002
CDLL4782A	8.5	1.0	100	26	-55 to + 100	0.002
CDLL4783	8.5	1.0	100	6.4	0 to + 75	0.01
CDLL4783A	8.5	1.0	100	13	-55 to + 100	0.01
CDLL4784	8.5	1.0	100	3.2	0 to + 75	0.0005
CDLL4784A	8.5	1.0	100	6.6	-55 to + 100	0.0005

NOTE 1 Zener impedance is derived by superimposing on I_{ZT} A 60Hz rms a.c. current equal to 10% of I_{ZT}.

NOTE 2 The maximum allowable change observed over the entire temperature range i.e., the diode voltage will not exceed the speci½ed mV at any discrete temperature between the established limits, per JEDEC standard No.5.

NOTE 3 Zener voltage range equals 8.5 volts ±5%



	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
D	1.60	1.70	0.063	0.067
F	0.41	0.55	0.016	0.022
G	3.30	3.70	.130	.146
G1	2.54 REF.		.100 REF.	
S	0.03 MIN.		.001 MIN.	

FIGURE 1

DESIGN DATA

CASE: DO-213AA, Hermetically sealed glass case. (MELF, SOD-80, LL34)

LEAD FINISH: Tin / Lead

POLARITY: Diode to be operated with the banded (cathode) end positive.

MOUNTING POSITION: Any.

MOUNTING SURFACE SELECTION: The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.

Microsemi

6 LAKE STREET, LAWRENCE, MASSACHUSETTS 01841
PHONE (978) 620-2600 FAX (978) 689-0803
WEBSITE: http://www.microsemi.com

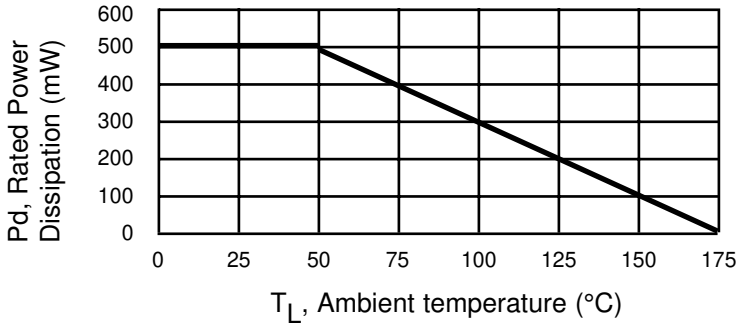


FIGURE 2
POWER DERATING CURVE

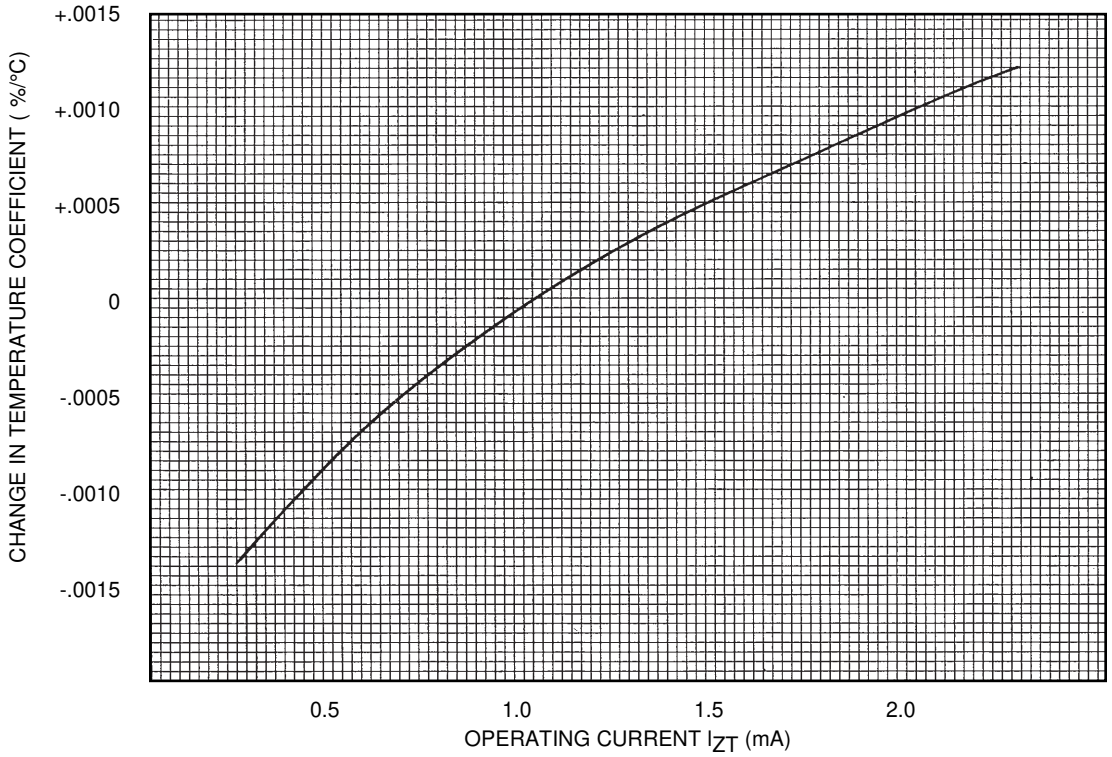


FIGURE 3
TYPICAL CHANGE OF TEMPERATURE COEFFICIENT WITH CHANGE IN OPERATING CURRENT