

Micro Commercial Components

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Features

Low reverse leakage current

- Zener Voltage 3.3V to 12V
- Silicon Planar Power Zener Diodes
- Standards zener voltage tolerance is ±10%, Add suffix "A" for ±5% tolerance, other tolerances are available upon request

Mechanical Data

- Case:Minimelf Package
- Polarity: Color band denotes cathode end
- Weight: Approx. 0.05gram

Maximum Ratings

	Symbol	Value	Units
Zener Current		See Table 1	
Power Dissipation $@T_A=50^{\circ}C$	P _{tot}	500	mW
Junction Temperature	TJ	200	S
Storage Temperature Range	T _{STG}	-65 to 200	S

Electrical Characteristics @ 25°C Unless Otherwise Specified

	Symbol	Maximum	Unit
Thermal resistance	$R_{ extsf{ heta}JA}$	300	°C/W
Forward Voltage @ I _F =200mA	V_{F}	1.5	V

NOTE:

- 1) Valid provided that a distance of 8mm from case are kept at ambient temperature
- 2) Power derating: 4.0mW/°C above 50°C



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Revision: 1

2006/08/28

DL746 THRU DL759

0.5W Silicon Planar Zener Diodes

Minimelf

DL746 thru DL759



	NORMAL ZENER	TEST	MAXIMUM ZENER	MAXIMUM	REVERSE	MAXIMUM ZENER	
MCC PART NUMBER	VOLTAGE	CURRENT	IMPEDANCE	LEAKAGE	CURRENT	CURRENT	TYPICAL TEMP.
	Vz@ Izt	Izt	Zzt @ Izt	lr @ V⊏1V		L	COEFFICIENT
	VOLTS	mA	OHMS	uA @25ºC	uA @125ºC	mA	%/°C
DL746	3.3	20	28	10	30	110	066
DL747	3.6	20	24	10	30	100	058
DL748	3.9	20	23	10	30	95	046
DL749	4.3	20	22	2	30	85	033
DL750	4.7	20	19	2	30	75	015
DL751	5.1	20	17	1	20	70	±.010
DL752	5.6	20	11	1	20	65	+.030
DL753	6.2	20	7.0	0.1	20	60	+.049
DL754	6.8	20	5.0	0.1	20	55	+.053
DL755	7.5	20	6.0	0.1	20	50	+.057
DL756	8.2	20	8.0	0.1	20	45	+.060
DL757	9.1	20	10	0.1	20	40	+.061
DL758	10	20	17	0.1	20	35	+.062
DL759	12	20	30	0.1	20	30	+.062

Note:

- 1) Tested with pulses $t_p = 20ms$
- 2) Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.
- 3) Zener impedance derived by superimposing on I_{ZT} , a 60 cps, rms ac current equal to 10% I_{ZT} (2 mA ac)
- 4) Allowance has been made for the increase in V_z due to Z_z and for the increase in junction temperature as the unit approaches thermal equilibrium at the power dissipation of 400mW.

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