



**DC COMPONENTS CO., LTD.**

RECTIFIER SPECIALISTS

**DL4728A  
THRU  
DL4761A**

**TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES**

**VOLTAGE RANGE - 3.3 to 75 Volts**

**POWER - 1.0 Watt**

**FEATURES**

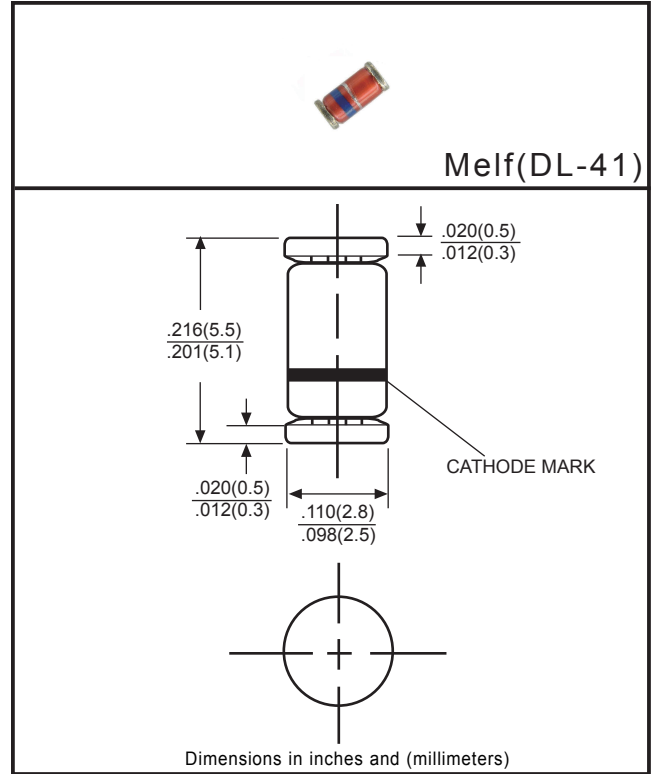
- \* Voltage range : 3.3V to 75V
- \* Double slug type construction

**MECHANICAL DATA**

- \* Case: Glass sealed case
- \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.35 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

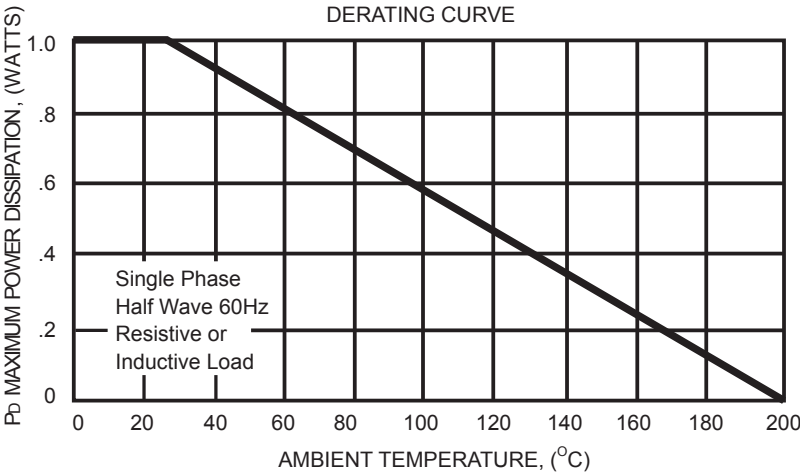
Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



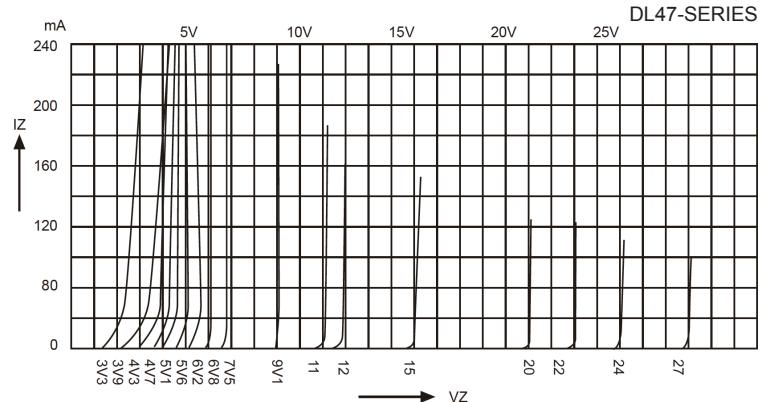
	SYMBOL	VALUE	UNITS
Zener Current See Table "Characterisitics"			
Power Dissipation at TA = 25°C	P <sub>tot</sub>	1.0 <sup>(1)</sup>	W
Junction Temperature	T <sub>J</sub>	200	°C
Operating and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150	°C
Maximum Instantaneous Forward Voltage at IF = 200 mA	V <sub>F</sub>	1.2	Volts
Typical Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	170	°C/W

Note 1 : Suffix "A" indicates Zener Voltage Tolerance ± 5%

FIG. 1  
TYPICAL FORWARD CURRENT  
DERATING CURVE



**Breakdown Characteristics**



## RATING AND CHARACTERISTIC CURVES (DL4728A THRU DL4761A)

TYPE	Nominal Zener Voltage	Zener Test Current	Maximum Zener Impedance		IZK	Maximum Reverse Leakage Current	
	VZ@IZT	IZT	ZZT@IZT	ZZT@IZK		IR	@VR
	Volts	mA	Ohms	Ohms	mA	µA	Volts
DL4728A	3.3	76	10	400	1.0	100	1.0
DL4729A	3.6	69	10	400	1.0	100	1.0
DL4730A	3.9	64	9.0	400	1.0	50	1.0
DL4731A	4.3	58	9.0	400	1.0	10	1.0
DL4732A	4.7	53	8.0	500	1.0	10	1.0
DL4733A	5.1	49	7.0	550	1.0	10	1.0
DL4734A	5.6	45	5.0	600	1.0	10	2.0
DL4735A	6.2	41	2.0	700	1.0	10	3.0
DL4736A	6.8	37	3.5	700	1.0	10	4.0
DL4737A	7.5	34	4.0	700	0.5	10	5.0
DL4738A	8.2	31	4.5	700	0.5	10	6.0
DL4739A	9.1	28	5.0	700	0.5	10	7.0
DL4740A	10	25	7.0	700	0.25	10	7.6
DL4741A	11	23	8.0	700	0.25	5.0	8.4
DL4742A	12	21	9.0	700	0.25	5.0	9.1
DL4743A	13	19	10	700	0.25	5.0	9.9
DL4744A	15	17	14	700	0.25	5.0	11.4
DL4745A	16	15.5	16	700	0.25	5.0	12.2
DL4746A	18	14	20	750	0.25	5.0	13.7
DL4747A	20	12.5	22	750	0.25	5.0	15.2
DL4748A	22	11.5	23	750	0.25	5.0	16.7
DL4749A	24	10.5	25	750	0.25	5.0	18.2
DL4750A	27	9.5	35	750	0.25	5.0	20.6
DL4751A	30	8.5	40	1000	0.25	5.0	22.8
DL4752A	33	7.5	45	1000	0.25	5.0	25.1
DL4753A	36	7.0	50	1000	0.25	5.0	27.4
DL4754A	39	6.5	60	1000	0.25	5.0	29.7
DL4755A	43	6.0	70	1500	0.25	5.0	32.7
DL4756A	47	5.5	80	1500	0.25	5.0	35.8
DL4757A	51	5.0	95	1500	0.25	5.0	38.8
DL4758A	56	4.5	110	2000	0.25	5.0	42.6
DL4759A	62	4.0	125	2000	0.25	5.0	47.1
DL4760A	68	3.7	150	2000	0.25	5.0	51.7
DL4761A	75	3.3	175	2000	0.25	5.0	56.0

## Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold **DC COMPONENTS** harmless against all damages.

**DC COMPONENTS** disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on **DC COMPONENTS**'s knowledge of typical requirements that are often placed on **DC COMPONENTS** products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

**DC COMPONENTS** reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify **DC COMPONENTS**'s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, **DC COMPONENTS** products are intended for use as general electronic components in standard applications ( eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death ( eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling **DC COMPONENTS** products not expressly indicated for use in such applications do so at their own risk. If customer intended to use **DC COMPONENTS** standard quality grade devices for applications not envisioned by **DC COMPONENTS**, please contact our sales representatives in advance.



**DC COMPONENTS CO., LTD.**