



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

DLM5221B  
THRU  
DLM5261B

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

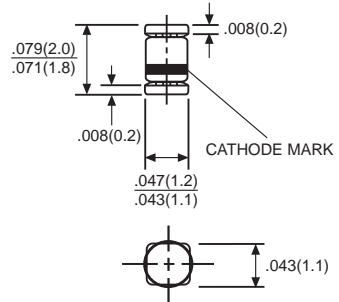
**FEATURES**

- \* Voltage Range: 2.4V to 47V
- \* Double slug type construction

**MECHANICAL DATA**

- \* Case: Glass sealed case Micro Melf
- \* Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.05 grams Approx.

Micro Melf



Dimensions in inches(millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	500 <sup>(1)</sup>	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
Thermal Resistance Junction to Ambient Air	RthA	- - 0.3 <sup>(1)</sup>	K/mW Typ. Min. Max.
Forward Voltage at IF=100mA	VF	- - 1	Volts Typ. Min. Max.

1)Valid Provided that leads are kept at ambient temperature at a distance of 10 mm from case.

NOTE: Suffix "B" indicates Zener Voltage Tolerance ± 5%

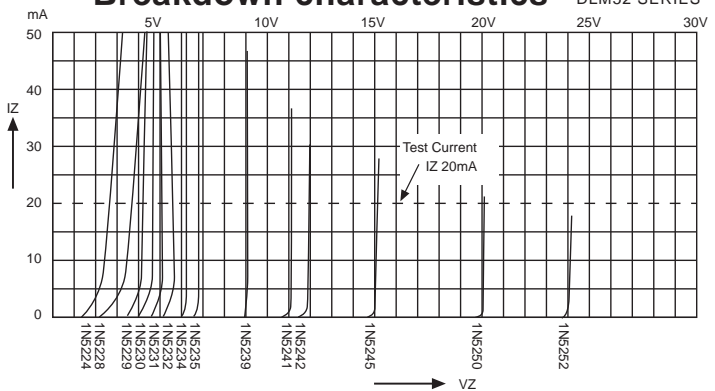
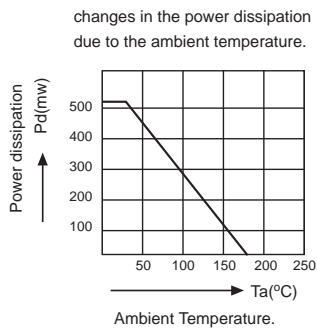
# RATING AND CHARACTERISTIC CURVES (DLM5221B THRU DLM5261B)

TYPE	Nominal Zener Voltage $V_Z@I_ZT$	Zener Test Current $I_ZT$	Maximum Zener Impedance		$I_{ZK}$	Maximum Reverse Leakage Current	
			$Z_{ZT}@I_ZT$	$Z_{ZK}@I_{ZK}$		$I_R @ V_R$	
			Ohms	Ohms		$\mu A$	Volts
DLM5221B	2.4	20	30	1200	0.25	100	1.0
DLM5222B	2.5	20	30	1250	0.25	100	1.0
DLM5223B	2.7	20	30	1300	0.25	75	1.0
DLM5225B	3.0	20	30	1600	0.25	50	1.0
DLM5226B	3.3	20	28	1600	0.25	25	1.0
DLM5227B	3.6	20	24	1700	0.25	15	1.0
DLM5228B	3.9	20	23	1900	0.25	10	1.0
DLM5229B	4.3	20	22	2000	0.25	5	1.0
DLM5230B	4.7	20	19	1900	0.25	5	2.0
DLM5231B	5.1	20	17	1600	0.25	5	2.0
DLM5232B	5.6	20	11	1600	0.25	5	3.0
DLM5233B	6.0	20	9	1600	0.25	5	3.5
DLM5234B	6.2	20	7	1000	0.25	5	4.0
DLM5235B	6.8	20	5	750	0.25	3	5.0
DLM5236B	7.5	20	6	500	0.25	3	6.0
DLM5237B	8.2	20	8	500	0.25	3	6.0
DLM5238B	8.7	20	9	600	0.25	3	6.5
DLM5239B	9.1	20	10	600	0.25	3	6.5
DLM5240B	10	20	17	600	0.25	3	8.0
DLM5241B	11	20	22	600	0.25	3	8.4
DLM5242B	12	20	30	600	0.25	2	9.1
DLM5243B	13	9.5	13	600	0.25	1	9.9
DLM5244B	14	9.0	14	600	0.25	0.5	10
DLM5245B	15	8.5	16	600	0.25	0.1	11
DLM5246B	16	7.8	17	600	0.25	0.1	12
DLM5247B	17	7.4	19	600	0.25	0.1	13
DLM5248B	18	7.0	21	600	0.25	0.1	14
DLM5249B	19	6.6	23	600	0.25	0.1	14
DLM5250B	20	6.2	25	600	0.25	0.1	15
DLM5251B	22	5.6	29	600	0.25	0.1	17
DLM5252B	24	5.2	33	600	0.25	0.1	18
DLM5253B	25	5.0	36	600	0.25	0.1	19
DLM5254B	27	4.6	41	600	0.25	0.1	21
DLM5255B	28	4.5	44	600	0.25	0.1	21
DLM5256B	30	4.2	49	600	0.25	0.1	23
DLM5257B	33	3.8	58	700	0.25	0.1	25
DLM5258B	36	3.4	70	700	0.25	0.1	27
DLM5259B	39	3.2	80	800	0.25	0.1	30
DLM5260B	43	3.0	93	900	0.25	0.1	33
DLM5261B	47	2.7	150	1000	0.25	0.1	36

NOTE: Standard Zener Voltage Tolerance  $\pm 5\%$

## Breakdown characteristics

DLM52 SERIES



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