



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

DL5221B
THRU
DL5261B

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

FEATURES

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

MECHANICAL DATA

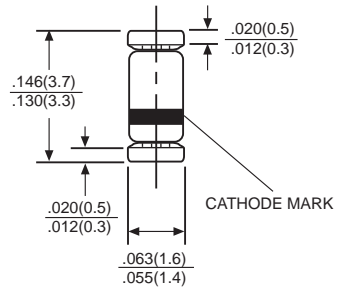
- * Case: Glass sealed case Micro Melf
- * Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 grams Approx.

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%.



Mini Melf(DL-35)



Dimensions in inches and (millimeters)

	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	500 ⁽¹⁾	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
Thermal Resistance Junction to Ambient Air	RthA	- - 0.3 ⁽¹⁾	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.

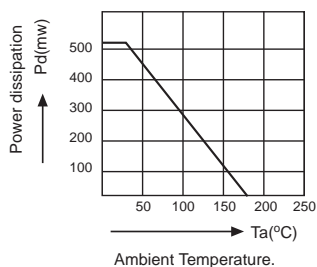
NOTE: Suffix "B" indicates Zener Voltage Tolerance ± 5%

RATING AND CHARACTERISTIC CURVES (DL5221B THRU DL5261B)

TYPE	Nominal Zener Voltage $V_Z @ I_Z T$	Zener Test Current $I_Z T$	Maximum Zener Impedance		I_{ZK}	Maximum Reverse Leakage Current	
			$Z_{ZT} @ I_Z T$	$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$	
			Ohms	Ohms		μA	Volts
DL5221B	2.4	20	30	1200	0.25	100	1.0
DL5222B	2.5	20	30	1250	0.25	100	1.0
DL5223B	2.7	20	30	1300	0.25	75	1.0
DL5225B	3.0	20	30	1600	0.25	50	1.0
DL5226B	3.3	20	28	1600	0.25	25	1.0
DL5227B	3.6	20	24	1700	0.25	15	1.0
DL5228B	3.9	20	23	1900	0.25	10	1.0
DL5229B	4.3	20	22	2000	0.25	5	1.0
DL5230B	4.7	20	19	1900	0.25	5	2.0
DL5231B	5.1	20	17	1600	0.25	5	2.0
DL5232B	5.6	20	11	1600	0.25	5	3.0
DL5233B	6.0	20	9	1600	0.25	5	3.5
DL5234B	6.2	20	7	1000	0.25	5	4.0
DL5235B	6.8	20	5	750	0.25	3	5.0
DL5236B	7.5	20	6	500	0.25	3	6.0
DL5237B	8.2	20	8	500	0.25	3	6.0
DL5238B	8.7	20	9	600	0.25	3	6.5
DL5239B	9.1	20	10	600	0.25	3	6.5
DL5240B	10	20	17	600	0.25	3	8.0
DL5241B	11	20	22	600	0.25	3	8.4
DL5242B	12	20	30	600	0.25	2	9.1
DL5243B	13	9.5	13	600	0.25	1	9.9
DL5244B	14	9.0	14	600	0.25	0.5	10
DL5245B	15	8.5	16	600	0.25	0.1	11
DL5246B	16	7.8	17	600	0.25	0.1	12
DL5247B	17	7.4	19	600	0.25	0.1	13
DL5248B	18	7.0	21	600	0.25	0.1	14
DL5249B	19	6.6	23	600	0.25	0.1	14
DL5250B	20	6.2	25	600	0.25	0.1	15
DL5251B	22	5.6	29	600	0.25	0.1	17
DL5252B	24	5.2	33	600	0.25	0.1	18
DL5253B	25	5.0	36	600	0.25	0.1	19
DL5254B	27	4.6	41	600	0.25	0.1	21
DL5255B	28	4.5	44	600	0.25	0.1	21
DL5256B	30	4.2	49	600	0.25	0.1	23
DL5257B	33	3.8	58	700	0.25	0.1	25
DL5258B	36	3.4	70	700	0.25	0.1	27
DL5259B	39	3.2	80	800	0.25	0.1	30
DL5260B	43	3.0	93	900	0.25	0.1	33
DL5261B	47	2.7	150	1000	0.25	0.1	36

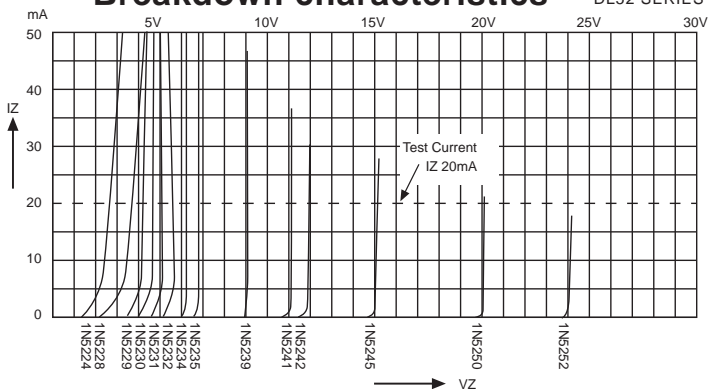
NOTE: Standard Zener Voltage Tolerance $\pm 5\%$

changes in the power dissipation due to the ambient temperature.



Breakdown characteristics

DL52 SERIES



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