

## SURFACE MOUNT ZENER DIODE

VOLTAGE - 2.4 to 75 Volts  
POWER - 500 mWatts

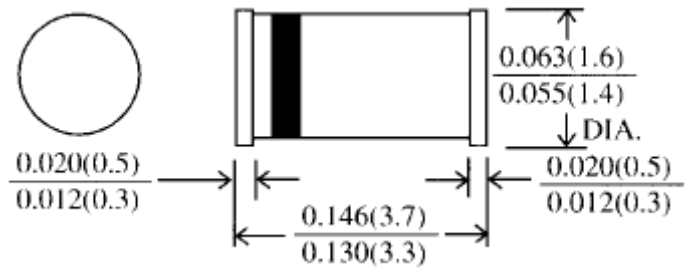
### FEATURES

- Planar Die Construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes

### MECHANICAL DATA

- Case: Molded Glass MINI-MELF
- Terminals: Solderable per MIL-STD-202E, Method 208
- Polarity: See Diagram Below
- Approx. Weight: 0.008 grams
- Mounting Position: Any

### MINI MELF(DL-35)



Unit :inch(mm)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation at Tamb = 25°C	P <sub>TOT</sub>	500	mW
Junction Temperature	T <sub>J</sub>	175	°C
Storage Temperature Range	T <sub>S</sub>	-65to+175	°C

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

Parameter	Symbol	Min	Typ	Max	Units
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	---	---	0.3	K/mW
Forward Voltage at IF=200mA	V <sub>F</sub>	---	---	1.1	V

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

**DL5221B SERIES**



Part Number	Nominal Zener Voltage			Max.Zener Impedance				Max Reverse Leakage Current		marking code
	Vz @ IzT			ZzT @ IzT		Zzk @ Izk		IR @ VR		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
DL5221B	2.40	2.28	2.52	30	20.0	1200	0.25	100	1.0	5221
DL5222B	2.50	2.38	2.63	30	20.0	1250	0.25	100	1.0	5222
DL5223B	2.70	2.57	2.84	30	20.0	1300	0.25	75	1.0	5223
DL5224B	2.80	2.66	2.94	30	20.0	1400	0.25	75	1.0	5224
DL5225B	3.00	2.85	3.15	29	20.0	1600	0.25	50	1.0	5225
DL5226B	3.30	3.14	3.47	28	20.0	1600	0.25	25	1.0	5226
DL5227B	3.60	3.42	3.78	24	20.0	1700	0.25	15	1.0	5227
DL5228B	3.90	3.71	4.10	23	20.0	1900	0.25	10	1.0	5228
DL5229B	4.30	4.09	4.52	22	20.0	2000	0.25	5.0	1.0	5229
DL5230B	4.70	4.47	4.94	19	20.0	1900	0.25	5.0	2.0	5230
DL5231B	5.10	4.85	5.36	17	20.0	1600	0.25	5.0	2.0	5231
DL5232B	5.60	5.32	5.88	11	20.0	1600	0.25	5.0	3.0	5232
DL5233B	6.00	5.70	6.30	7	20.0	1600	0.25	5.0	3.5	5233
DL5234B	6.20	5.89	6.51	7	20.0	1000	0.25	5.0	4.0	5234
DL5235B	6.80	6.46	7.14	5	20.0	750	0.25	3.0	5.0	5235
DL5236B	7.50	7.13	7.88	6	20.0	500	0.25	3.0	6.0	5236
DL5237B	8.20	7.79	8.61	8	20.0	500	0.25	3.0	6.5	5237
DL5238B	8.70	8.27	9.14	8	20.0	600	0.25	3.0	6.5	5238
DL5239B	9.10	8.65	9.56	10	20.0	600	0.25	3.0	7.0	5239
DL5240B	10.00	9.50	10.50	17	20.0	600	0.25	3.0	8.0	5240
DL5241B	11.00	10.45	11.55	22	20.0	600	0.25	2.0	8.4	5241
DL5242B	12.00	11.40	12.60	30	20.0	600	0.25	1.0	9.1	5242
DL5243B	13.00	12.35	13.65	13	9.5	600	0.25	0.5	9.9	5243
DL5244B	14.00	13.30	14.70	15	9.0	600	0.25	0.1	10.0	5244
DL5245B	15.00	14.25	15.75	16	8.5	600	0.25	0.1	11.0	5245
DL5246B	16.00	15.20	16.80	17	7.8	600	0.25	0.1	12.0	5246
DL5247B	17.00	16.15	17.85	19	7.4	600	0.25	0.1	13.0	5247
DL5248B	18.00	17.10	18.90	21	7.0	600	0.25	0.1	14.0	5248
DL5249B	19.00	18.05	19.95	23	6.6	600	0.25	0.1	14.0	5249
DL5250B	20.00	19.00	21.00	25	6.2	600	0.25	0.1	15.0	5250
DL5251B	22.00	20.90	23.10	29	5.6	600	0.25	0.1	17.0	5251
DL5252B	24.00	22.80	25.20	33	5.2	600	0.25	0.1	18.0	5252
DL5253B	25.00	23.75	26.25	35	5.0	600	0.25	0.1	19.0	5253
DL5254B	27.00	25.65	28.35	41	4.6	600	0.25	0.1	21.0	5254
DL5255B	28.00	26.60	29.40	44	4.5	600	0.25	0.1	21.0	5255
DL5256B	30.00	28.50	31.50	49	4.2	600	0.25	0.1	23.0	5256
DL5257B	33.00	31.35	34.65	58	3.8	700	0.25	0.1	25.0	5257
DL5258B	36.00	34.20	37.80	70	3.4	700	0.25	0.1	27.0	5258
DL5259B	39.00	37.05	40.95	80	3.2	800	0.25	0.1	30.0	5259
DL5260B	43.00	40.85	45.15	93	3.0	900	0.25	0.1	33.0	5260
DL5261B	47.00	44.65	49.35	150	2.7	1000	0.25	0.1	36.0	5261
DL5262B	51.00	48.45	53.55	125	2.5	1100	0.25	0.1	39.0	5262
DL5263B	56.00	53.20	58.80	150	2.2	1300	0.25	0.1	43.0	5263
DL5264B	60.00	57.00	63.00	170	2.1	1400	0.25	0.1	46.0	5264
DL5265B	62.00	58.90	65.10	185	2.0	1400	0.25	0.1	47.0	5265
DL5266B	68.00	64.60	71.40	230	1.8	1600	0.25	0.1	52.0	5266
DL5267B	75.00	71.25	78.75	270	1.7	1700	0.25	0.1	56.0	5267

Notes:

- STANDARD VOLTAGE TOLERANCE IS +5% AND:
- SUFFIX "A" FOR + 3%
- SUFFIX "B" FOR + 5%
- SUFFIX "C" FOR + 10%
- SUFFIX "D" FOR + 20%

### RATING AND CHARACTERISTIC CURVES

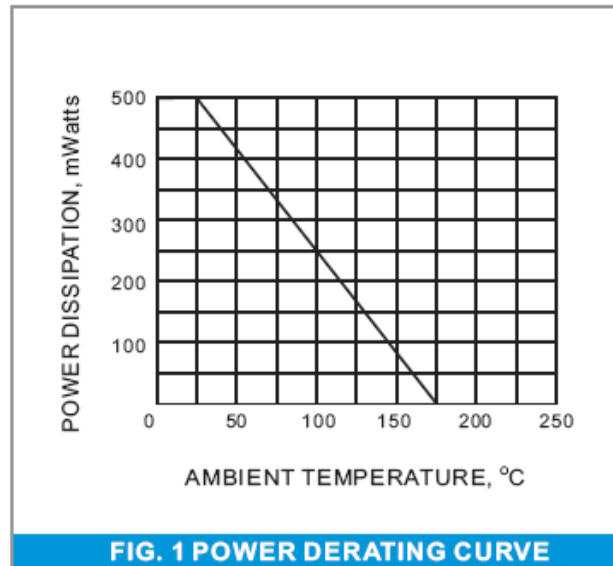


FIG. 1 POWER DERATING CURVE

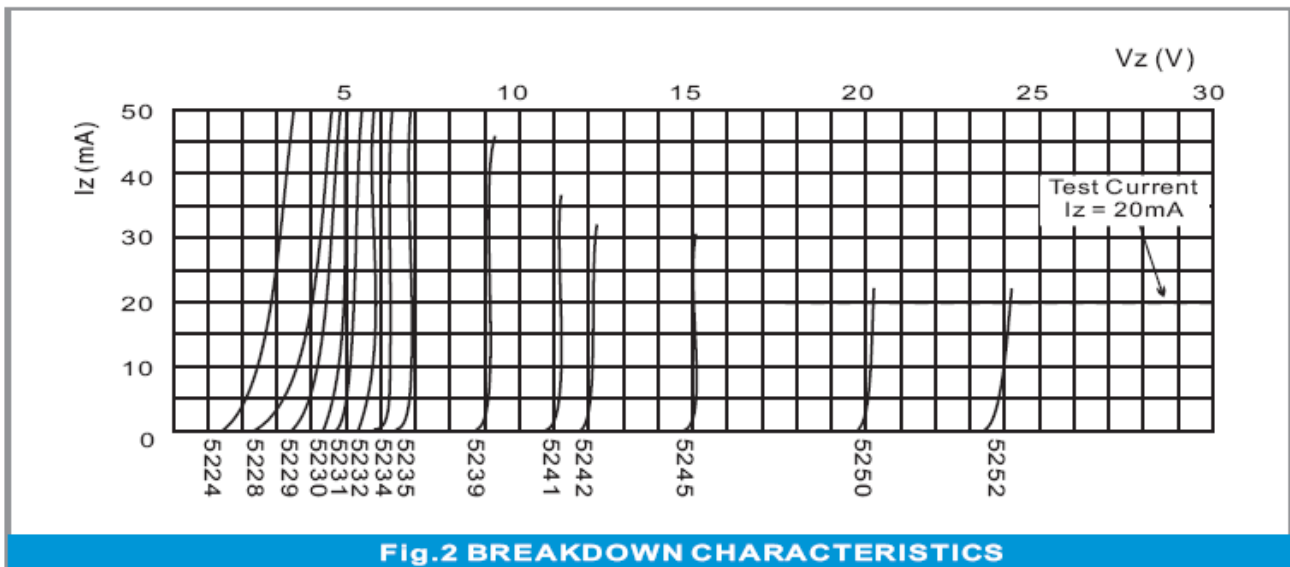


Fig.2 BREAKDOWN CHARACTERISTICS