



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: frontiersales@frontierusa.com

Web: <http://www.frontierusa.com>

500mW MINI MELF ZENER DIODE

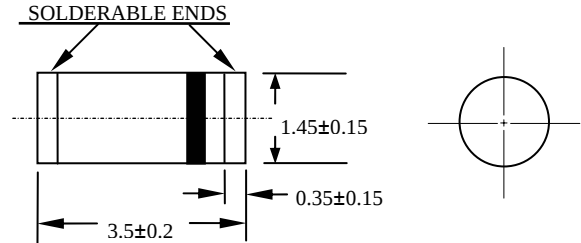
ZMM5221B-LFR THRU ZMM5261B-LFR

FEATURES

- LOW COST
- SMALL SIZE
- GLASS SEALED
- ROHS

MECHANICAL DATA

- CASE: MINI MELF GLASS CASE, DO-213AA GL34, DIMENSIONS IN MILLIMETERS
- TERMINALS: SOLDERABLE PER MIL-STD -202, METHOD 208
- POLARITY: COLOR BAND DENOTES CATHODE
- MOUNTING POSITION: ANY
- WEIGHT: 0.036 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 175°C

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.2V MAX, IF = 200mA FOR ALL TYPES								
JEDEC TYPE NO	NOMINAL ZENER VOLTAGE V _Z @ I _{ZT} ★	TEST CURRENT I _{ZT}	MAXIMUM ZENER IMPEDANCE		TYPICAL TEMPERATURE COEFFICIENT	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM REGULATOR CURRENT I _{ZM}
			Z _{ZT} @ I _{ZT}	Z _{ZK} AT I _{ZK} =1mA		IR	TEST VOLTAGE SUFFIX B	
	VOLTS	mA	OHMS	OHMS	%/ °C	µA	VOLTAGE	mA
ZMM5221B-LFR	2.4	20	30	1200	-0.085	100	1.0	191
ZMM5222B-LFR	2.5	20	30	1250	-0.085	100	1.0	182
ZMM5223B-LFR	2.7	20	30	1300	-0.080	75	1.0	168
ZMM5224B-LFR	2.8	20	30	1400	-0.080	75	1.0	162
ZMM5225B-LFR	3.0	20	29	1600	-0.075	50	1.0	151
ZMM5226B-LFR	3.3	20	28	1600	-0.070	25	1.0	138
ZMM5227B-LFR	3.6	20	24	1700	-0.065	15	1.0	126
ZMM5228B-LFR	3.9	20	23	1900	-0.060	10	1.0	115
ZMM5229B-LFR	4.3	20	22	2000	±0.055	5	1.0	106
ZMM5230B-LFR	4.7	20	19	1900	±0.030	5	2.0	97
ZMM5231B-LFR	5.1	20	17	1600	±0.030	5	2.0	89
ZMM5232B-LFR	5.6	20	11	1600	+0.038	5	3.0	81
ZMM5233B-LFR	6.0	20	7	1600	+0.038	5	3.5	76
ZMM5234B-LFR	6.2	20	7	1000	+0.045	5	4.0	73
ZMM5235B-LFR	6.8	20	5	750	+0.050	3	5.0	67
ZMM5236B-LFR	7.5	20	6	500	+0.058	3	6.0	61
ZMM5237B-LFR	8.2	20	8	500	+0.062	3	6.5	55
ZMM5238B-LFR	8.7	20	8	600	+0.065	3	6.5	52
ZMM5239B-LFR	9.1	20	10	600	+0.068	3	7.0	50
ZMM5240B-LFR	10	20	17	600	+0.075	3	8.0	45
ZMM5241B-LFR	11	20	22	600	+0.076	2	8.4	41
ZMM5242B-LFR	12	20	30	600	+0.077	1	9.1	38
ZMM5243B-LFR	13	9.5	13	600	+0.079	0.5	9.9	35
ZMM5244B-LFR	14	9.0	15	600	+0.082	0.1	10	32
ZMM5245B-LFR	15	8.5	16	600	+0.082	0.1	11	30
ZMM5246B-LFR	16	7.8	17	600	+0.083	0.1	12	28
ZMM5247B-LFR	17	7.4	19	600	+0.084	0.1	13	27
ZMM5248B-LFR	18	7.0	21	600	+0.085	0.1	14	25
ZMM5249B-LFR	19	6.6	23	600	+0.086	0.1	14	24
ZMM5250B-LFR	20	6.2	25	600	+0.086	0.1	15	23
ZMM5251B-LFR	22	5.6	29	600	+0.087	0.1	17	21.2
ZMM5252B-LFR	24	5.2	33	600	+0.087	0.1	18	19.1
ZMM5253B-LFR	25	5.0	35	600	+0.089	0.1	19	18.2
ZMM5254B-LFR	27	4.6	41	600	+0.090	0.1	21	16.8
ZMM5255B-LFR	28	4.5	44	600	+0.091	0.1	21	16.2
ZMM5256B-LFR	30	4.2	49	600	+0.091	0.1	23	15.1
ZMM5257B-LFR	33	3.8	58	700	+0.092	0.1	25	13.8
ZMM5258B-LFR	36	3.4	70	700	+0.093	0.1	27	12.6
ZMM5259B-LFR	39	3.2	80	800	+0.094	0.1	30	11.5
ZMM5260B-LFR	43	3.0	93	900	+0.095	0.1	33	10.6
ZMM5261B-LFR	47	2.7	150	1000	+0.095	0.1	36	9.7

NOTE: SUFFIX "B" FOR ±5%

★ MEASURED WITH PULSE T_p = 40ms

**RATINGS AND CHARACTERISTIC CURVES ZMM5221B-LFR THRU
ZMM5261B-LFR**

FIG.1- BREAKDOWN CHARACTERISTICS

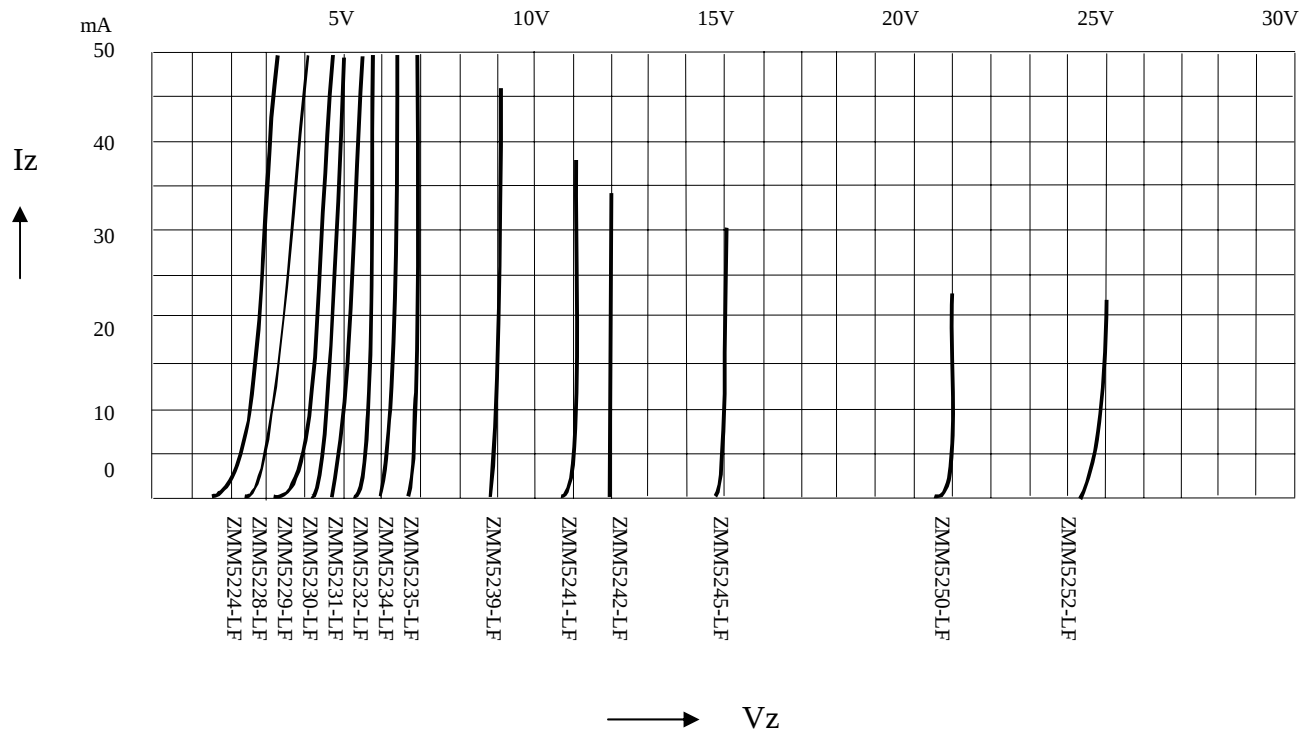


FIG.2- POWER, TEMPERATURE DERATING CURVE

