



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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

E-mail: [frontiersales@frontierusa.com](mailto:frontiersales@frontierusa.com)

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

## 500mW MINI MELF ZENER DIODE

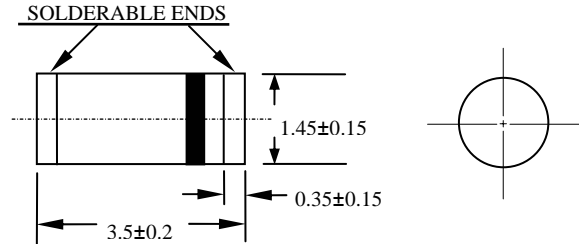
### ZMM55-C2V0 THRU ZMM55-C68

#### FEATURES

- LOW COST
- SMALL SIZE
- GLASS SEALED

#### 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 SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE BY 20%

ELECTRICAL CHARACTERISTICS (TA=25°C UNLESS OTHERWISE NOTED) VF=1.2V MAX, IF = 200mA FOR ALL TYPES									
JEDEC TYPE NO	NOMINAL ZENER VOLTAGE V <sub>Z</sub> @ I <sub>ZT</sub> *	TEST CURRENT I <sub>ZT</sub>	MAXIMUM ZENER IMPEDANCE			TYPICAL TEMPERATURE COEFFICIENT	MAXIMUM REVERSE LEAKAGE CURRENT		MAXIMUM REGULATOR CURRENT I <sub>ZM</sub>
			Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>			IR	TEST VOLTAGE SUFFIX B	
	VOLTS	mA	OHMS	OHMS	mA	% / °C	µA	VOLTAGE	mA
ZMM55-C2V0	1.9-2.1	5	85	600	1.0	-0.070	50	1.0	180
ZMM55-C2V4	2.28-2.56	5	85	600	1.0	-0.070	50	1.0	150
ZMM55-C2V7	2.5-2.9	5	85	600	1.0	-0.070	10	1.0	135
ZMM55-C3V0	2.8-3.2	5	85	600	1.0	-0.070	4	1.0	125
ZMM55-C3V3	3.1-3.5	5	85	600	1.0	-0.065	2	1.0	115
ZMM55-C3V6	3.4-3.8	5	85	600	1.0	-0.060	2	1.0	105
ZMM55-C3V9	3.7-4.1	5	85	600	1.0	-0.050	2	1.0	95
ZMM55-C4V3	4.0-4.6	5	75	600	1.0	-0.025	1	1.0	90
ZMM55-C4V7	4.4-5.0	5	60	600	1.0	-0.010	0.5	1.0	85
ZMM55-C5V1	4.8-5.4	5	35	550	1.0	+0.015	0.1	1.0	80
ZMM55-C5V6	5.2-6.0	5	25	450	1.0	+0.025	0.1	1.0	70
ZMM55-C6V2	5.8-6.6	5	10	200	1.0	+0.035	0.1	2.0	64
ZMM55-C6V8	6.4-7.2	5	8	150	1.0	+0.045	0.1	3.0	58
ZMM55-C7V5	7.0-7.9	5	7	50	1.0	+0.050	0.1	5.0	53
ZMM55-C8V2	7.7-8.7	5	7	50	1.0	+0.050	0.1	6.0	47
ZMM55-C9V1	8.5-9.6	5	10	50	1.0	+0.060	0.1	7.0	43
ZMM55-C10	9.4-10.6	5	15	70	1.0	+0.070	0.1	7.5	40
ZMM55-C11	10.4-11.6	5	20	70	1.0	+0.070	0.1	8.5	36
ZMM55-C12	11.4-12.7	5	20	90	1.0	+0.070	0.1	9.0	32
ZMM55-C13	12.4-14.1	5	26	110	1.0	+0.070	0.1	10	29
ZMM55-C15	13.8-15.6	5	30	110	1.0	+0.070	0.1	11	27
ZMM55-C16	15.3-17.1	5	40	170	1.0	+0.070	0.1	12	24
ZMM55-C18	16.8-19.1	5	50	170	1.0	+0.070	0.1	14	21
ZMM55-C20	18.8-21.2	5	55	220	1.0	+0.070	0.1	15	20
ZMM55-C22	20.8-23.3	5	55	220	1.0	+0.070	0.1	17	18
ZMM55-C24	22.8-25.6	5	80	220	1.0	+0.080	0.1	18	16
ZMM55-C27	25.1-28.9	5	80	220	1.0	+0.080	0.1	20	14
ZMM55-C30	28-32	5	80	220	1.0	+0.080	0.1	22	13
ZMM55-C33	31-35	5	80	220	1.0	+0.080	0.1	24	12
ZMM55-C36	34-38	5	80	220	1.0	+0.080	0.1	27	11
ZMM55-C39	37-41	2.5	90	500	0.5	+0.080	0.1	30	10
ZMM55-C43	40-46	2.5	90	600	0.5	+0.080	0.1	33	9.2
ZMM55-C47	44-50	2.5	110	700	0.5	+0.080	0.1	36	8.5
ZMM55-C51	48-54	2.5	125	700	0.5	+0.080	0.1	39	7.6
ZMM55-C56	52-60	2.5	135	1000	0.5	+0.080	0.1	43	6.9
ZMM55-C62	58-66	2.5	150	1000	0.5	+0.080	0.1	47	6.2
ZMM55-C68	68-72	2.5	200	1000	0.5	+0.090	0.1	51	5.7

NOTE: \* MEASURED WITH PULSES T<sub>p</sub>=20m SEC  
STANDARD VOLTAGE TOLERANCE IS±5% AND  
SUFFIX "A" FOR±1%, SUFFIX "B" FOR±2%, SUFFIX "C" FOR±5%, SUFFIX "D" FOR±20%

# RATINGS AND CHARACTERISTIC CURVES ZMM55-C2V0 THRU ZMM55-C68

FIG.1- BREAKDOWN CHARACTERISTICS

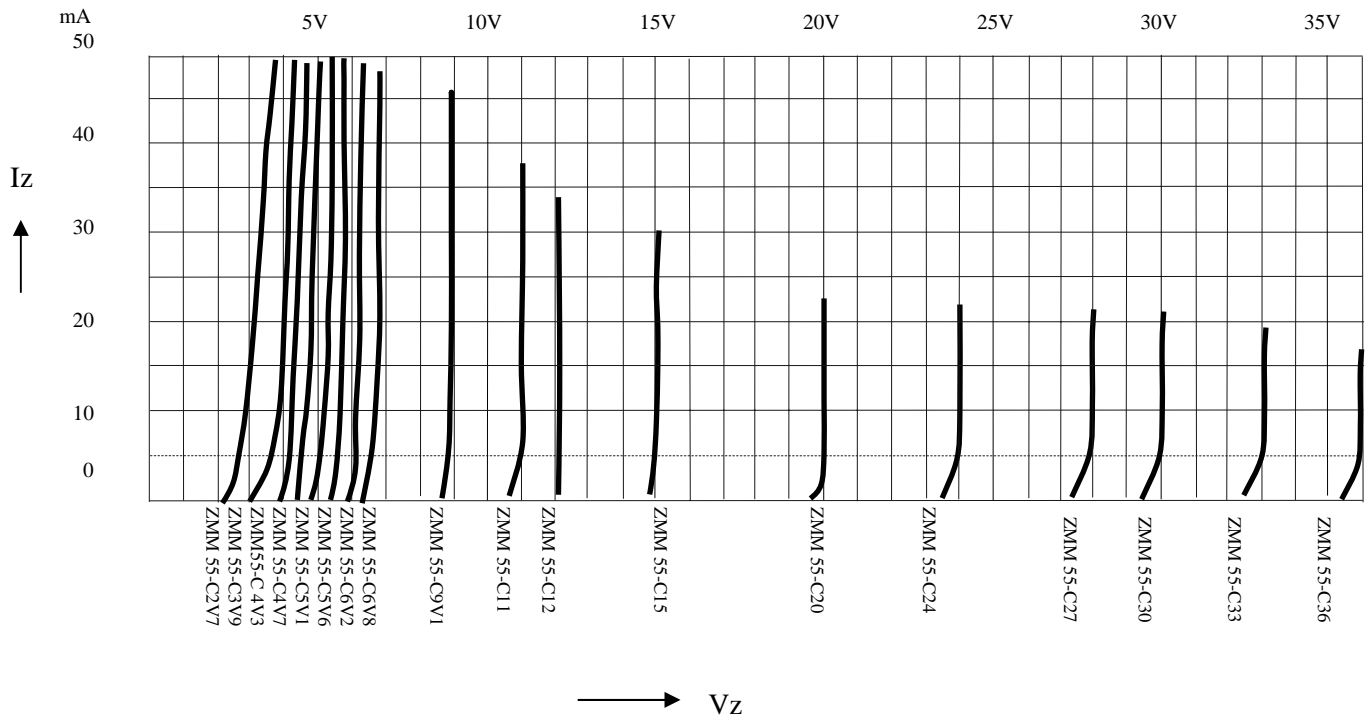


FIG.2- POWER, TEMPERATURE DERATING CURVE

