DESCRIPTION

The ZMM2V0~56(B) is available in LL-34 Package.

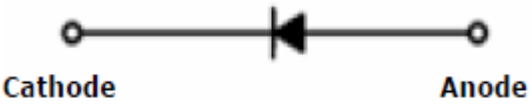
ORDERING INFORMATION

Package Type	Part Number
LL-34	ZMM2V0(B)
	ZMM2V2(B)
	ZMM2V4(B)
	ZMM2V7(B)
	ZMM3V0(B)
	ZMM3V3(B)
	ZMM3V6(B)
	ZMM3V9(B)
	ZMM4V3(B)
	ZMM4V7(B)
	ZMM5V1(B)
	ZMM5V6(B)
	ZMM6V2(B)
	ZMM6V8(B)
	ZMM7V5(B)
	ZMM8V2(B)
	ZMM9V1(B)
	ZMM10(B)
	ZMM11(B)
	ZMM12(B)
	ZMM13(B)
	ZMM15(B)
	ZMM16(B)
	ZMM18(B)
	ZMM20(B)
	ZMM22(B)
	ZMM24(B)
	ZMM27(B)
	ZMM30(B)
	ZMM33(B)
	ZMM36(B)
	ZMM39(B)
	ZMM43(B)
	ZMM47(B)
	ZMM51(B)
	ZMM56(B)
Note	2,500pcs/Reel
AiT provides all RoHS Compliant Products	

FEATURES

- Low Reverse Leakage
- Low Zener Impedance
- High Stability and High Reliability
- Leadless Diode
- Hermetically Sealed Glass
- 1st Band indicates negative polarity or Cathode Band
- RoHS Compliant
- Available in LL-34(Mini-MELF) Package

PIN DESCRIPTION



ABSOLUTE MAXIMUM RATINGS

T_A = 25°C

P_D, Power Dissipation	500mW
T_J, Operating Junction Temperature	175°C
T_S, Storage Temperature Range	-55°C to +175°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

T_A = 25°C, unless otherwise noted, V_F Forward Voltage =1.2V Maximum@ I_F = 200 mA for all types

Part Number	V_Z@I_{ZT} (Volts) Nominal	I_{ZT} (mA)	Z_{ZT}@I_{ZT} (Ω) Max	I_R @V_R (μA) Max	V_R (Volts)
ZMM2V0(B)	2.0	5	100	120	0.5
ZMM2V2(B)	2.2	5	100	120	0.7
ZMM2V4(B)	2.4	5	100	120	1
ZMM2V7(B)	2.7	5	110	100	1
ZMM3V0(B)	3.0	5	120	50	1
ZMM3V3(B)	3.3	5	120	20	1
ZMM3V6(B)	3.6	5	100	10	1
ZMM3V9(B)	3.9	5	100	5	1
ZMM4V3(B)	4.3	5	100	5	1
ZMM4V7(B)	4.7	5	80	5	1
ZMM5V1(B)	5.1	5	80	5	1.5
ZMM5V6(B)	5.6	5	60	5	2.5
ZMM6V2(B)	6.2	5	60	5	3
ZMM6V8(B)	6.8	5	20	2	3.5
ZMM7V5(B)	7.5	5	20	0.5	4
ZMM8V2(B)	8.2	5	20	0.5	5
ZMM9V1(B)	9.1	5	25	0.5	6
ZMM10(B)	10	5	30	0.2	7
ZMM11(B)	11	5	30	0.2	8
ZMM12(B)	12	5	30	0.2	9
ZMM13(B)	13	5	35	0.2	10
ZMM15(B)	15	5	40	0.2	11
ZMM16(B)	16	5	40	0.2	12
ZMM18(B)	18	5	45	0.2	13
ZMM20(B)	20	5	45	0.2	15
ZMM22(B)	22	5	30	0.2	17

Part Number	V_Z@I_{ZT} (Volts) Nominal	I_{ZT} (mA)	Z_{ZT}@I_{ZT} (Ω) Max	I_R @V_R (μA) Max	V_R (Volts)
ZMM24(B)	24	5	35	0.2	19
ZMM27(B)	27	5	45	0.2	21
ZMM30(B)	30	5	55	0.2	23
ZMM33(B)	33	5	65	0.2	25
ZMM36(B)	36	5	75	0.2	27
ZMM39(B)	39	5	85	0.2	30
ZMM43(B)	43	5	90	0.2	33
ZMM47(B)	47	5	90	0.2	36
ZMM51(B)	51	5	110	0.2	39
ZMM56(B)	56	5	110	0.2	43

NOTE1: The type numbers listed have zener voltage min/max limits as shown and have a standard tolerance on the nominal zener voltage of 5%.

NOTE2: The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

NOTE3: suffix B± 2%

TYPICAL CHARACTERISTICS

Figure 1. Zener Current vs. Zener Voltage

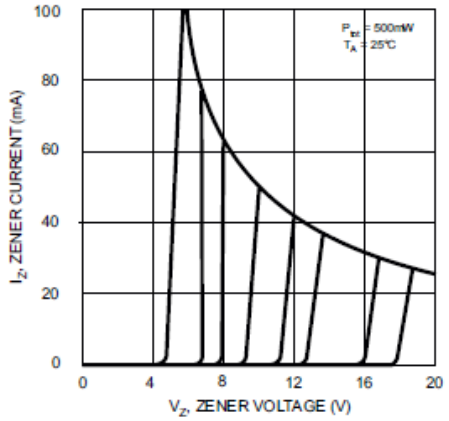


Figure 2. Zener Current vs. Zener Voltage

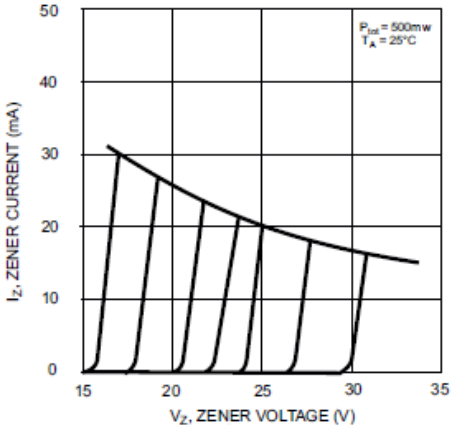


Figure 3. Power Dissipation vs. Ambient Temperature

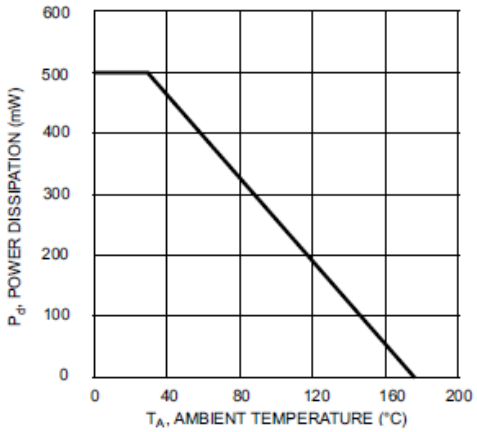


Figure 4. Differential Zener Impedance

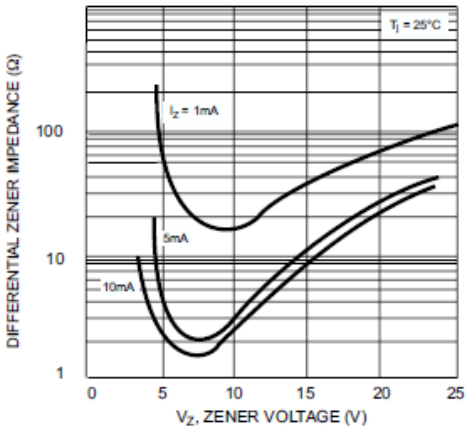
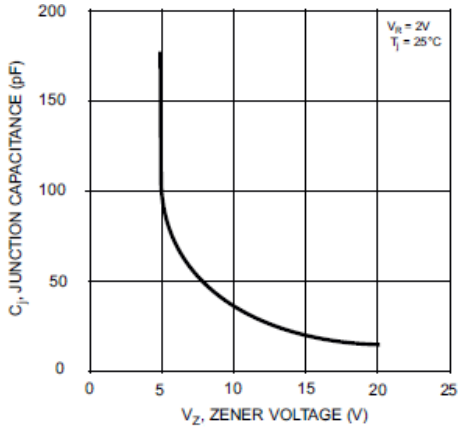
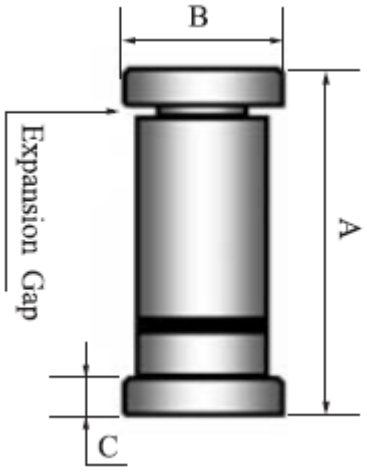


Figure 5. Junction Capacitance vs. Zener Voltage



PACKAGE INFORMATION

Dimension in LL-34 Package (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.302	3.505	0.130	0.138
B	1.39	1.54	0.054	0.060
C	0.350	0.500	0.014	0.020

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