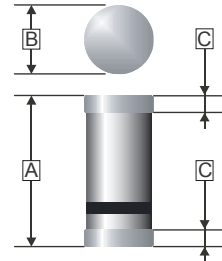


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Zener Voltage Range 2.4 to 56 Volts
- Mini-MELF (LL-34) Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces are Corrosion Resistant and Terminals are Readily Solderable
- Matte Tin (Sn) Lead Finish
- Color Band Indicates Negative Polarity

MINI-MELF(LL-34)



REF.	Millimeter	
	Min.	Max.
A	3.30	3.70
B	1.39	1.60
C	0.28	0.50



PACKAGING INFORMATION

Package	MPQ	Leader Size
SOD-80	2.5K	7 inch

MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Power Dissipation	P _D	500	mW
Operating and Storage Temperature Range	T _J , T _{STG}	200, -65~200	°C

These ratings are limiting values above which the service ability of the diode may be impaired.

ELECTRICAL RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

TYPE NUMBER	ZENER VOLTAGE RANGE		ZENER IMPEDANCE		LEAKAGE CURRENT ¹	
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$ $=0.25\text{mA}$	$I_R @ V_R$	V_R
	Nom(V)	mA	$\Omega(\text{MAX})$		$\mu\text{A}(\text{MAX})$	V
ZMM5221B	2.4	20	30	1200	100	1
ZMM5222B	2.5	20	30	1250	100	1
ZMM5223B	2.7	20	30	1300	75	1
ZMM5224B	2.8	20	30	1400	75	1
ZMM5225B	3	20	29	1600	50	1
ZMM5226B	3.3	20	28	1600	25	1
ZMM5227B	3.6	20	24	1700	15	1
ZMM5228B	3.9	20	23	1900	10	1
ZMM5229B	4.3	20	22	2000	5	1
ZMM5230B	4.7	20	19	1900	5	2
ZMM5231B	5.1	20	17	1600	5	2
ZMM5232B	5.6	20	11	1600	5	3
ZMM5233B	6	20	7	1600	5	3.5
ZMM5234B	6.2	20	7	1000	5	4
ZMM5235B	6.8	20	5	750	3	5
ZMM5236B	7.5	20	6	500	3	6
ZMM5237B	8.2	20	8	500	3	6.5
ZMM5238B	8.7	20	8	600	3	6.5
ZMM5239B	9.1	20	10	600	3	7
ZMM5240B	10	20	17	600	3	8
ZMM5241B	11	20	22	600	2	8.4
ZMM5242B	12	20	30	600	1	9.1
ZMM5243B	13	9.5	13	600	0.5	9.9
ZMM5244B	14	9	15	600	0.1	10
ZMM5245B	15	8.5	16	600	0.1	11
ZMM5246B	16	7.8	17	600	0.1	12
ZMM5247B	17	7.4	19	600	0.1	13
ZMM5248B	18	7	21	600	0.1	14
ZMM5249B	19	6.6	23	600	0.1	14
ZMM5250B	20	6.2	25	600	0.1	15
ZMM5251B	22	5.6	29	600	0.1	17
ZMM5252B	24	5.2	33	600	0.1	18
ZMM5253B	25	5	35	600	0.1	19
ZMM5254B	27	4.6	41	600	0.1	21
ZMM5255B	28	4.5	44	600	0.1	21
ZMM5256B	30	4.2	49	600	0.1	23
ZMM5257B	33	3.8	58	700	0.1	25
ZMM5258B	36	3.4	70	700	0.1	27
ZMM5259B	39	3.2	80	800	0.1	30
ZMM5260B	43	3	93	900	0.1	33
ZMM5261B	47	2.7	105	1000	0.1	36
ZMM5262B	51	2.5	125	1100	0.1	39
ZMM5263B	56	2.2	150	1300	0.1	43

V_F =Forward Voltage=1.1V Maximum @ $I_F=200\text{mA}$ for all types

Notes:

- The type numbers listed have zener voltage as shown and have a standard tolerance on the nominal zener voltage of $\pm 5\%$ in Blue marking, suffix A $\pm 10\%$ in Brown marking, C $\pm 2\%$ in Orange marking and D $\pm 1\%$ in Yellow marking.
- 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} .