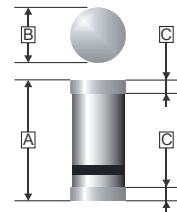


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Zener Voltage Range 2.0 to 75 Volts
- Mini-MELF 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) Terminal Finish
- Color band Indicates Negative Polarity

SOD-80 (Mini-MELF)



REF.	Millimeter	
	Min.	Max.
A	3.30	3.70
B	1.40	1.60
C	0.28	0.50

PACKAGING INFORMATION

Weight: 0.0307 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation	P_D	500	mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	+175, -65~175	°C

*These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL RATINGS (Rating 25°C ambient temperature unless otherwise specified)

DEVICE TYPE	V _Z @ I _{ZT} (Volts)		I _{ZT} (mA)	Z _{ZT} @ I _{ZT} (Ω) Max	I _{ZK} (mA)	Z _{ZK} @ I _{ZK} (Ω) Max	I _R @ V _R (μA) Max	V _R (Volts)
	V _Z (Min)	V _Z (Max)						
BZV55C 2V0	1.88	2.11	5.0	100	1.0	600	50.0	1.0
BZV55C 2V2	2.08	2.33	5.0	100	1.0	600	50.0	1.0
BZV55C 2V4	2.28	2.56	5.0	85	1.0	600	50.0	1.0
BZV55C 2V7	2.51	2.89	5.0	85	1.0	600	10.0	1.0
BZV55C 3V0	2.80	3.20	5.0	85	1.0	600	4.0	1.0
BZV55C 3V3	3.10	3.50	5.0	85	1.0	600	2.0	1.0
BZV55C 3V6	3.40	3.80	5.0	85	1.0	600	2.0	1.0
BZV55C 3V9	3.70	4.10	5.0	85	1.0	600	2.0	1.0
BZV55C 4V3	4.00	4.60	5.0	75	1.0	600	1.0	1.0
BZV55C 4V7	4.40	5.00	5.0	60	1.0	600	0.5	1.0
BZV55C 5V1	4.80	5.40	5.0	35	1.0	550	0.1	1.0
BZV55C 5V6	5.20	6.00	5.0	25	1.0	450	0.1	1.0
BZV55C 6V2	5.80	6.60	5.0	10	1.0	200	0.1	2.0
BZV55C 6V8	6.40	7.20	5.0	8	1.0	150	0.1	3.0
BZV55C 7V5	7.00	7.90	5.0	7	1.0	50	0.1	5.0
BZV55C 8V2	7.70	8.70	5.0	7	1.0	50	0.1	6.2
BZV55C 9V1	8.50	9.60	5.0	10	1.0	50	0.1	6.8
BZV55C 10	9.40	10.60	5.0	15	1.0	70	0.1	7.5
BZV55C 11	10.40	11.60	5.0	20	1.0	70	0.1	8.2
BZV55C 12	11.40	12.70	5.0	20	1.0	90	0.1	9.1
BZV55C 15	13.80	15.60	5.0	30	1.0	110	0.1	11.0
BZV55C 16	15.30	17.10	5.0	40	1.0	170	0.1	12.0
BZV55C 18	16.80	19.10	5.0	50	1.0	170	0.1	13.0
BZV55C 20	18.80	21.10	5.0	55	1.0	220	0.1	15.0
BZV55C 22	20.80	23.30	5.0	55	1.0	220	0.1	16.0
BZV55C 24	22.80	25.60	5.0	80	1.0	220	0.1	18.0
BZV55C 27	25.10	28.90	5.0	80	1.0	220	0.1	20.0
BZV55C 30	28.00	32.00	5.0	80	1.0	220	0.1	22.0
BZV55C 33	31.00	35.00	5.0	80	1.0	220	0.1	24.0
BZV55C 36	34.00	38.00	5.0	80	1.0	220	0.1	27.0
BZV55C 39	37.00	41.00	2.5	90	0.5	500	0.1	28.0
BZV55C 43	40.00	46.00	2.5	90	0.5	600	0.1	32.0
BZV55C 47	44.00	50.00	2.5	110	0.5	700	0.1	35.0
BZV55C 51	48.00	54.00	2.5	125	0.5	700	0.1	38.0
BZV55C 56	52.00	60.00	2.5	135	0.5	1000	0.1	42.0
BZV55C 62	58.00	66.00	2.5	150	0.5	1000	0.1	47.0
BZV55C 68	64.00	72.00	2.5	160	0.5	1000	0.1	51.0
BZV55C 75	70.00	80.00	2.5	170	0.5	1000	0.1	56.0

V_F Forward Voltage = 1.0 V Maximum @ I_F = 100 mA for all types

Notes:

1. The type numbers listed have zener voltage min/max limits as shown.
2. For detailed information on price, availability and delivery of nominal zener voltages between the voltages shown and tighter voltage tolerances, contact your nearest SeCoS representative.
3. 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}

RATINGS AND CHARACTERISTIC CURVES

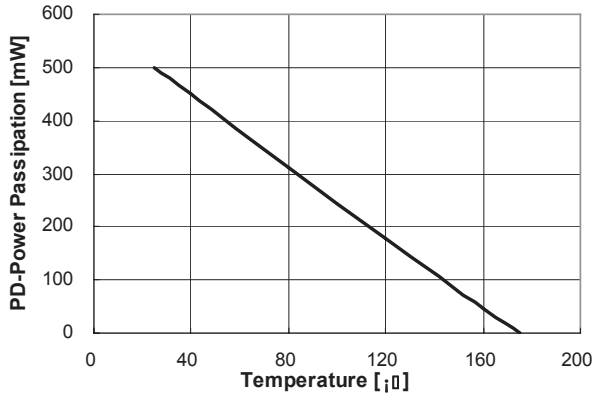


Figure 1. Power Dissipation vs Ambient Temperature
Valid provided leads at a distance of 0.8mm from case are kept at ambient temperature

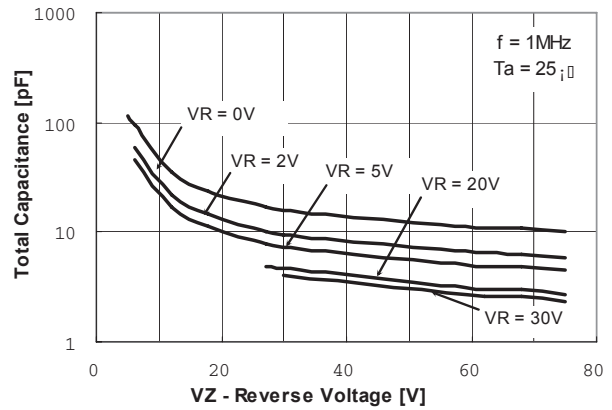


Figure 2. Total Capacitance

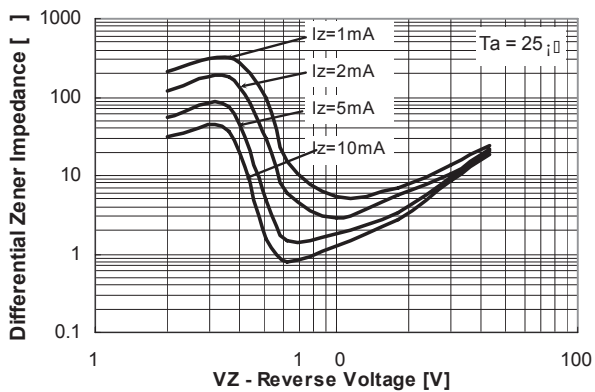


Figure 3. Differential Impedance vs. Zener Voltage

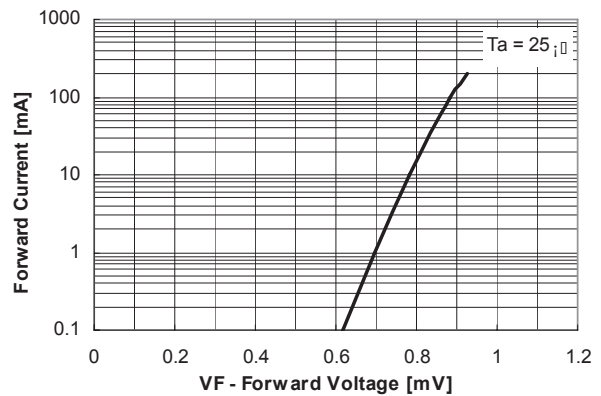


Figure 4. Forward Current vs. Forward Voltage

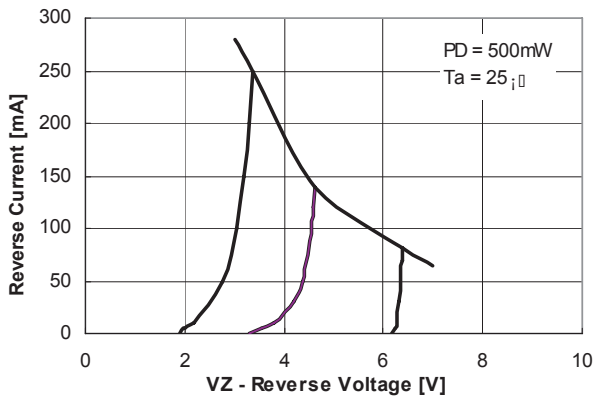


Figure 5. Reverse Current vs. Reverse Voltage

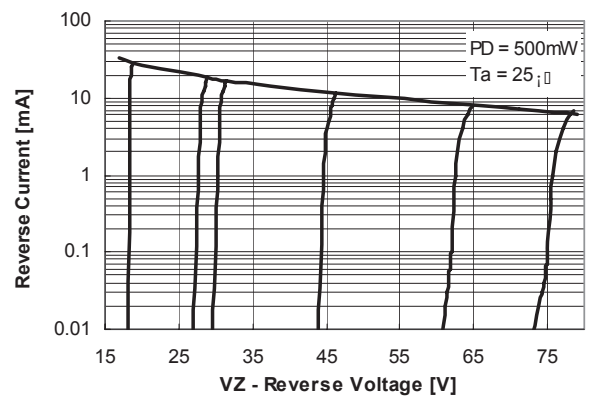


Figure 6. Reverse Current vs. Reverse Voltage