



2CW37-2.0 THRU 2CW37-36

PLANAR ZENER DIODE

ZENER VOLTAGE: 2.0-36V

POWER: 500mW

TECHNICAL
SPECIFICATION

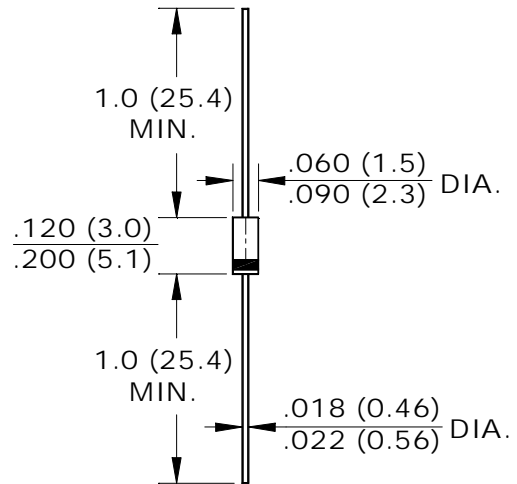
FEATURES

- Small glass structure ensures high reliability
- High temperature soldering guaranteed:
250°C/10S/9.5mm lead length
at 5 lbs tension

MECHANICAL DATA

- Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
- Case: Glass, hermetically sealed
- Polarity: Color band denotes cathode
- Mounting position: Any

DO - 35



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified)

RATINGS	SYMBOL	VALUE	UNITS
Zener Current	I_{ZMAX}	see table	mA
Power Dissipation (Note 1)	Pt	500	mW
Thermal Resistance (junction to ambient) (Note 1)	$R_{\theta(ja)}$	0.3	°C/mW
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +175	°C

Note:

1. Valid provided that leads are kept at ambient temperature at a distance of 8mm from case.

CHARACTERISTICS TABLE

TYPE	V _Z (V)		I _Z (mA)	R _Z		I _{R1} (25°C)	I _{R2} (100°C)		I _Z (25°C)
	CLASSIFICATION			max (W)	I _Z (mA)	max (mA)	max (mA)	V _R (V)	max (mA)
	A	B							
2CW37-2.0	1.88-2.02	1.98-2.12	5	100	5	10	100	0.4	150
2CW37-2.2	2.08-2.23	2.18-2.33	5	100	5	10	100	0.5	140
2CW37-2.4	2.28-2.43	2.38-2.56	5	100	5	10	100	0.6	130
2CW37-2.7	2.50-2.75	2.65-2.90	5	100	5	10	100	0.7	130
2CW37-3.0	2.80-3.05	2.95-3.20	5	100	5	10	100	0.8	120
2CW37-3.3	3.10-3.35	3.25-3.50	5	100	5	10	100	1.0	110
2CW37-3.6	3.40-3.65	3.55-3.80	5	100	5	5	50	1.0	100
2CW37-3.9	3.70-3.95	3.85-4.10	5	100	5	5	50	1.0	95
2CW37-4.3	4.00-4.35	4.25-4.60	5	100	5	5	50	1.0	90
2CW37-4.7	4.40-4.75	4.65-5.00	5	100	5	5	50	1.5	85
2CW37-5.1	4.80-5.15	5.00-5.40	5	50	5	1	10	1.5	80
2CW37-5.6	5.20-5.70	5.50-6.00	5	30	5	1	10	1.5	70
2CW37-6.2	5.80-6.30	6.10-6.60	5	17	5	1	10	3.0	64
2CW37-6.8	6.40-6.90	6.70-7.20	5	15	5	1	10	4	58
2CW37-7.5	7.00-7.60	7.40-7.90	5	15	5	1	10	5.1	53
2CW37-8.2	7.70-8.30	8.10-8.70	5	20	5	1	10	5.6	47
2CW37-9.1	8.50-9.20	9.00-9.60	5	20	5	0.5	5	6.2	43
2CW37-10	9.40-10.10	9.90-10.60	5	25	5	0.5	5	6.8	40
2CW37-11	10.4-11.10	10.90-11.60	5	30	5	0.5	5	7.5	36
2CW37-12	11.40-12.20	12-12.7	5	30	5	0.5	5	8.2	32
2CW37-13	12.4-13.4	13.1-14.1	5	35	5	0.5	5	9	29
2CW37-15	13.8-14.9	14.6-15.6	5	35	5	0.5	5	10	27
2CW37-16	15.3-16.4	16.1-17.1	5	40	5	0.5	5	11	24
2CW37-18	16.8-18.1	17.8-19.1	5	40	5	0.5	5	12	21
2CW37-20	18.8-20.2	19.9-21.2	5	50	5	0.5	5	13	20
2CW37-22	20.8-22.2	21.9-23.3	5	60	5	0.5	5	15	18
2CW37-24	22.8-24.4	24.1-25.6	5	70	5	0.5	5	16	16
2CW37-27	25.2-27.20	26.6-28.60	5	80	5	0.5	5	18	14
2CW37-30	28.0-30.50	29.5-32.0	5	100	5	0.5	5	20	13
2CW37-33	31.0-33.50	32.5-35.00	5	120	5	0.5	5	22	12
2CW37-36	34.0-36.50	35.5-38.0	5	140	5	0.5	5	24	11