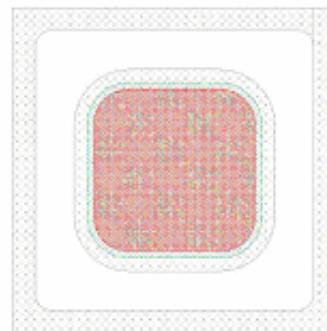


2CW032XXXJL SERIES ZENER DIODE CHIPS FOR PLASTIC PACKAGE

DESCRIPTION

- 2CW032XXXJL series are low-power zener diode chips for plastic package that fabricated in silicon epitaxial planar technology.
- The series can provide two precisions voltage chips different regulator voltage.
- The chip thickness is 180μm or 150μm. The top electrode material is Al, and the back-side electrode material is Au.
- Chip size: 0.32 X 0.32 (mm)².
- Pad Size: 0.18 X 0.18 (mm)².



2CW032XXXJL CHIP TOPOGRAPHY

Ordering Specification

Series	Specification
2CW032XXXJL-2	2% tolerance
2CW032XXXJL	5% tolerance

ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Test conditions	Value	Unit
Junction Temperature	T _j	----	175	°C
Storage Temperature	T _{stg}	----	-50~+175	°C

ELECTRICAL CHARACTERISTICS (For packaged diodes, $T_{amb}=25^{\circ}\text{C}$)

Type	Working Voltage@ $I_{zt}=5\text{mA}$		Dynamic resistance		Reverse leakage current @ $T_{amb}=25^{\circ}\text{C}$ @ V_R	
	$V_z(\text{V}) \pm 2\%$	$V_z(\text{V}) \pm 5\%$	$Z_{zk}(\Omega)@$ $I_{zk}=1\text{mA}$	$Z_{zt}(\Omega)@$ $I_{zt}=5\text{mA}$	$I_R(\mu\text{A})$	$V_R(\text{V})$
2CW032XXXJL			Max.	Max.	Max.	
2CW032020JL	----	1.9-2.1	600	100	90	1.0
2CW032022JL	----	2.09-2.31	600	100	90	1.0
2CW032024JL	----	2.28~2.52	600	85	50	1.0
2CW032027JL	----	2.57~2.84	600	85	10	1.0
2CW032030JL	----	2.85~3.15	600	85	4	1.0
2CW032033JL	----	3.14~3.47	600	85	2	1.0
2CW032036JL	3.53~3.67	3.42~3.78	600	85	2	1.0
2CW032039JL	3.82~3.98	3.71~4.10	600	85	2	1.0
2CW032043JL	4.21~4.39	4.09~4.52	600	80	1	1.0
2CW032047JL	4.61~4.79	4.47~4.94	500	70	0.5	1.0
2CW032051JL	5.00~5.20	4.85~5.36	480	50	0.1	1.0
2CW032056JL	5.49~5.71	5.32~5.88	400	30	0.1	1.0
2CW032062JL	6.08~6.32	5.89~6.51	150	10	0.1	2.0
2CW032068JL	6.66~6.94	6.46~7.14	80	8	0.1	3.0
2CW032075JL	7.35~7.65	7.13~7.88	50	7	0.1	5.0
2CW032082JL	8.04~8.36	7.79~8.61	50	7	0.1	6.1
2CW032091JL	8.92~9.28	8.65~9.56	50	10	0.1	6.8
2CW032100JL	9.80~10.20	9.50~10.50	70	15	0.1	7.5
2CW032110JL	10.78~11.22	10.45~11.55	70	20	0.1	8.2
2CW032120JL	11.76~12.24	11.40~12.60	90	20	0.1	9.0
2CW032130JL	12.74~13.26	12.40~13.65	110	26	0.1	9.7
2CW032150JL	14.70~15.30	14.25~15.60	110	30	0.1	11
2CW032160JL	15.68~16.32	15.30~16.80	170	40	0.1	12
2CW032180JL	17.64~18.36	17.10~18.90	170	45	0.1	14
2CW032200JL	19.60~20.40	19.00~21.00	220	55	0.1	15
2CW032220JL	21.56~22.44	20.90~23.10	220	55	0.1	17
2CW032240JL	23.52~24.48	22.80~25.20	220	70	0.1	18
2CW032270JL	26.46~27.54	25.65~28.35	220	80	0.1	20
2CW032300JL	29.40~30.60	28.50~31.50	220	80	0.1	22
2CW032330JL	32.34~33.66	31.35~34.65	220	80	0.1	24
2CW032360JL	35.28~36.72	34.20~37.80	220	80	0.1	27
2CW032390JL	38.22~39.78	37.05~40.95	500	90	0.1	29
2CW032430JL	42.14~43.86	40.85~45.15	600	90	0.1	32

2CW032470JL	46.06~47.94	44.65~49.35	700	110	0.1	35
2CW032510JL	49.98~52.02	48.45~53.55	700	125	0.1	38
2CW032560JL	54.88~57.12	53.2~58.8	1000	135	0.1	42
2CW032620JL	60.76~63.24	58.9~65.1	1000	150	0.1	46.5
2CW032680JL	66.64~69.36	64.6~71.4	1000	200	0.1	51
2CW032750JL	73.5~76.5	71.25~78.75	1500	250	0.1	56

Forward Voltage VF= 1.0 V Maximum @ IF = 100 mA for all 2CW032XXXJL series.

*Note: from 39V up to 75V Vz@Iz=2.5mA, Zzt@Iz=2.5mA, Zzk@Iz=0.5mA.