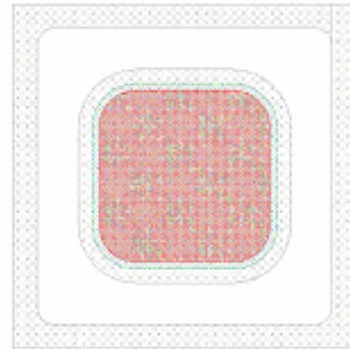


## 2CW032XXXJL-R SERIES ZENER DIODE CHIPS FOR PLASTIC PACKAGE WITH ASYMMETRY LIMITS

### DESCRIPTION

- 2CW032XXXJL-R series are low-power zener diode chips for plastic package that fabricated in silicon epitaxial planar technology.
- The series is asymmetrical regulator voltage chips, that is the upper limit and lower limit is asymmetrical, e.g. Vz=3.0V chips: the upper limit is 3.25V, the lower limit is 2.95V, the specification design is better suitable for user's using habit.
- 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)<sup>2</sup>.
- Pad Size: 0.18 X 0.18 (mm)<sup>2</sup>.



2CW032XXXJL-R CHIP TOPOGRAPHY

### ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Test conditions	Value	Unit
Junction Temperature	T <sub>j</sub>	----	175	°C
Storage Temperature	T <sub>stg</sub>	----	-55~+175	°C

**ELECTRICAL CHARACTERISTICS (For packaged diodes, T<sub>amb</sub>=25°C)**

Type	Working Voltage@I <sub>zt</sub> =5mA	Dynamic resistance		Reverse leakage current @ T <sub>amb</sub> =25°C@ VR	
		Z <sub>zk</sub> (Ω)@ I <sub>zk</sub> =1mA	Z <sub>zt</sub> (Ω) @ I <sub>zt</sub> =5mA	IR(μA)	VR(V)
2CW032 XXXJL-R	V <sub>z</sub> (V)	Max.	Max.	Max.	
2CW032020JL-R	1.80~2.15	600	100	90	1.0
2CW032022JL-R	2.08~2.33	600	100	90	1.0
2CW032024JL-R	2.30~2.65	600	85	50	1.0
2CW032027JL-R	2.65~2.95	600	85	10	1.0
2CW032030JL-R	2.95~3.25	600	85	4	1.0
2CW032033JL-R	3.25~3.55	600	85	2	1.0
2CW032036JL-R	3.6~3.845	600	85	2	1.0
2CW032039JL-R	3.89~4.16	600	85	2	1.0
2CW032043JL-R	4.17~4.43	600	80	1	1.0
2CW032047JL-R	4.55~4.75	500	70	0.5	1.0
2CW032051JL-R	4.98~5.2	480	50	0.1	1.0
2CW032056JL-R	5.49~5.73	400	30	0.1	1.0
2CW032062JL-R	6.06~6.33	150	10	0.1	2.0
2CW032068JL-R	6.65~6.93	80	8	0.1	3.0
2CW032075JL-R	7.28~7.60	50	7	0.1	5.0
2CW032082JL-R	8.02~8.36	50	7	0.1	6.1
2CW032091JL-R	8.85~9.23	50	10	0.1	6.8
2CW032100JL-R	9.77~10.21	70	15	0.1	7.5
2CW032110JL-R	10.76~11.22	70	20	0.1	8.2
2CW032120JL-R	11.74~12.24	90	20	0.1	9.0
2CW032130JL-R	12.91~13.49	110	26	0.1	9.7
2CW032150JL-R	14.34~14.98	110	30	0.1	11
2CW032160JL-R	15.85~16.51	170	40	0.1	12
2CW032180JL-R	17.56~18.35	170	45	0.1	14
2CW032200JL-R	19.52~20.39	220	55	0.1	15
2CW032220JL-R	21.54~22.47	220	55	0.1	17
2CW032240JL-R	23.72~24.78	220	70	0.1	18
2CW032270JL-R	26.19~27.53	220	80	0.1	20
2CW032300JL-R	29.19~30.69	220	80	0.1	22
2CW032330JL-R	32.15~33.79	220	80	0.1	24
2CW032360JL-R	35.07~36.87	220	80	0.1	27

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