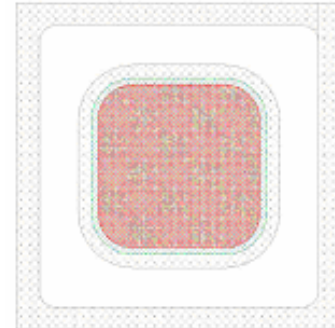


**2CW035XXXJL SERIES ZENER DIODE CHIPS FOR PLASTIC PACKAGE**
**DESCRIPTION**

- Ø 2CW035XXXJL series are low-power zener diode chips for plastic package that fabricated in silicon epitaxial planar technology.
- Ø These series can provide two kinds of precision voltage chips for different regulator voltage.
- Ø The chip thickness is 180µm or 150µm. The top electrode material is Al, and the back-side electrode material is Au.
- Ø Chip size: 0.35 X 0.35 (mm)<sup>2</sup>.
- Ø Pad Size: when  $V_z \geq 10V$ , is 0.216 X 0.216 (mm)<sup>2</sup>;  $V_z < 10V$  is 0.200 X 0.200(mm)<sup>2</sup>.


**2CW035XXXJL CHIP TOPOGRAPHY**
**ORDERING INFORMATION**

Series	Specification
2CW035XXXJL-2	2% tolerance
2CW035XXXJL	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,  $T_{amb}=25^\circ C$ )**

Type	Working Voltage@ $I_{zt}=5mA$		Dynamic resistance		Reverse leakage current @ $T_{amb}=25^\circ C @ V_R$	
	$V_z(V) \pm 2\%$	$V_z(V) \pm 5\%$	$Z_{zk}(\Omega) @ I_{zk}=1mA$	$Z_{zt}(\Omega) @ I_{zt}=5mA$	$I_R(\mu A)$	$V_R(V)$
2CW035XXXJL			Max.	Max.	Max.	
2CW035020JL	----	1.9-2.1	600	100	90	1.0
2CW035022JL	----	2.09-2.31	600	100	90	1.0
2CW035024JL	----	2.28~2.52	600	85	50	1.0
2CW035027JL	----	2.57~2.84	600	85	10	1.0
2CW035030JL	----	2.85~3.15	600	85	4	1.0
2CW035033JL	----	3.14~3.47	600	85	2	1.0

(To be continued)

(Continued)

Type	Working Voltage@ Izt=5mA)		Dynamic resistance		Reverse leakage current @ Tamb=25°C@ VR	
	Vz(V) ± 2%	Vz(V) ± 5%	Zzk(Ω)@ Izk=1mA	Zzt(Ω) @ Izt=5mA	IR(μA)	VR(V)
2CW035036JL	3.53~3.67	3.42~3.78	600	85	2	1.0
2CW035039JL	3.82~3.98	3.71~4.10	600	85	2	1.0
2CW035043JL	4.21~4.39	4.09~4.52	600	80	1	1.0
2CW035047JL	4.61~4.79	4.47~4.94	500	70	0.5	1.0
2CW035051JL	5.00~5.20	4.85~5.36	480	50	0.1	1.0
2CW035056JL	5.49~5.71	5.32~5.88	400	30	0.1	1.0
2CW035062JL	6.08~6.32	5.89~6.51	150	10	0.1	2.0
2CW035068JL	6.66~6.94	6.46~7.14	80	8	0.1	3.0
2CW035075JL	7.35~7.65	7.13~7.88	50	7	0.1	5.0
2CW035082JL	8.04~8.36	7.79~8.61	50	7	0.1	6.1
2CW035091JL	8.92~9.28	8.65~9.56	50	10	0.1	6.8
2CW035100JL	9.80~10.20	9.50~10.50	70	15	0.1	7.5
2CW035110JL	10.78~11.22	10.45~11.55	70	20	0.1	8.2
2CW035120JL	11.76~12.24	11.40~12.60	90	20	0.1	9.0
2CW035130JL	12.74~13.26	12.40~13.65	110	26	0.1	9.7
2CW035150JL	14.70~15.30	14.25~15.60	110	30	0.1	11
2CW035160JL	15.68~16.32	15.30~16.80	170	40	0.1	12
2CW035180JL	17.64~18.36	17.10~18.90	170	45	0.1	14
2CW035200JL	19.60~20.40	19.00~21.00	220	55	0.1	15
2CW035220JL	21.56~22.44	20.90~23.10	220	55	0.1	17
2CW035240JL	23.52~24.48	22.80~25.20	220	70	0.1	18
2CW035270JL	26.46~27.54	25.65~28.35	220	80	0.1	20
2CW035300JL	29.40~30.60	28.50~31.50	220	80	0.1	22
2CW035330JL	32.34~33.66	31.35~34.65	220	80	0.1	24
2CW035360JL	35.28~36.72	34.20~37.80	220	80	0.1	27
2CW035390JL	38.22~39.78	37.05~40.95	500	90	0.1	29
2CW035430JL	42.14~43.86	40.85~45.15	600	90	0.1	32
2CW035470JL	46.06~47.94	44.65~49.35	700	110	0.1	35
2CW035510JL	49.98~52.02	48.45~53.55	700	125	0.1	38
2CW035560JL	54.88~57.12	53.2~58.8	1000	135	0.1	42
2CW035620JL	60.76~63.24	58.9~65.1	1000	150	0.1	46.5
2CW035680JL	66.64~69.36	64.6~71.4	1000	200	0.1	51
2CW035750JL	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 2CW035XXXJL series.

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