2CW035XXXJL-R SERIES ZENER DIODE CHIPS FOR PLASTIC PACKAGE WITH ASYMMETRY LIMITS

DESCRIPTION

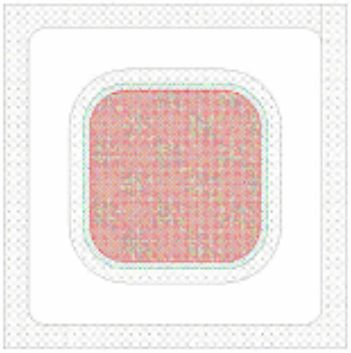
Ø 2CW035XXXJL-R series are low-power zener diode chips for plastic package that fabricated in silicon epitaxial planar technology.

Ø These 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 is better suitable for customer's using habit.

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 $(mm)^2$.

Ø Pad Size: when Vz≥10V, is 0.216 X 0.216 $(mm)^2$; Vz<10V is 0.200 X 0.200$(mm)^2$.



2CW035XXXJL-R CHIP TOPOGRAPHY

ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Test conditions	Value	Unit
Junction Temperature	T_j	----	175	°C
Storage Temperature	T_{stg}	----	-55~+175	°C

ELECTRICAL CHARACTERISTICS (For packaged diodes, T_{amb}=25°C)

Type	Working Voltage@I_{zt}=5mA	Dynamic resistance		Reverse leakage current @ T_{amb}=25°C@ VR	
2CW035 XXXJL-R	Vz(V)	Zzk(Ω)@ Izk=1mA	Z z t (Ω) @ Izt=5mA	IR(μA)	VR(V)
		Max.	Max.	Max.	
2CW035020JL-R	1.80~2.15	600	100	90	1.0
2CW035022JL-R	2.08~2.33	600	100	90	1.0
2CW035024JL-R	2.30~2.65	600	85	50	1.0
2CW035027JL-R	2.65~2.95	600	85	10	1.0
2CW035030JL-R	2.95~3.25	600	85	4	1.0
2CW035033JL-R	3.25~3.55	600	85	2	1.0
2CW035036JL-R	3.6~3.845	600	85	2	1.0
2CW035039JL-R	3.89~4.16	600	85	2	1.0
2CW035043JL-R	4.17~4.43	600	80	1	1.0
2CW035047JL-R	4.55~4.75	500	70	0.5	1.0
2CW035051JL-R	4.98~5.2	480	50	0.1	1.0
2CW035056JL-R	5.49~5.73	400	30	0.1	1.0
2CW035062JL-R	6.06~6.33	150	10	0.1	2.0
2CW035068JL-R	6.65~6.93	80	8	0.1	3.0
2CW035075JL-R	7.28~7.60	50	7	0.1	5.0
2CW035082JL-R	8.02~8.36	50	7	0.1	6.1
2CW035091JL-R	8.85~9.23	50	10	0.1	6.8
2CW035100JL-R	9.77~10.21	70	15	0.1	7.5
2CW035110JL-R	10.76~11.22	70	20	0.1	8.2
2CW035120JL-R	11.74~12.24	90	20	0.1	9.0
2CW035130JL-R	12.91~13.49	110	26	0.1	9.7
2CW035150JL-R	14.34~14.98	110	30	0.1	11
2CW035160JL-R	15.85~16.51	170	40	0.1	12
2CW035180JL-R	17.56~18.35	170	45	0.1	14
2CW035200JL-R	19.52~20.39	220	55	0.1	15
2CW035220JL-R	21.54~22.47	220	55	0.1	17
2CW035240JL-R	23.72~24.78	220	70	0.1	18
2CW035270JL-R	26.19~27.53	220	80	0.1	20
2CW035300JL-R	29.19~30.69	220	80	0.1	22
2CW035330JL-R	32.15~33.79	220	80	0.1	24
2CW035360JL-R	35.07~36.87	220	80	0.1	27

Forward Voltage VF= 1.0 V Maximum @ IF = 100 mA for all 2CW035XXXJL-R series.