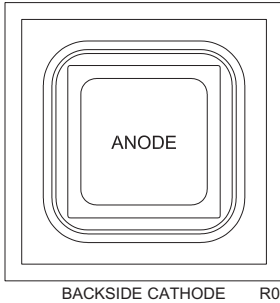


The CPZ59X-1N4703 thru CPZ59X-1N4717 are silicon Zener diodes ideal for all types of commercial, industrial, entertainment, and computer applications.



MECHANICAL SPECIFICATIONS:

Die Size	13 x 13 MILS
Die Thickness	5.5 MILS
Anode Bonding Pad Size	5.9 x 5.9 MILS
Top Side Metalization	Al – 20,000Å
Back Side Metalization	Au-As – 12,000Å
Scribe Alley Width	1.67 MILS
Wafer Diameter	6 INCHES
Gross Die Per Wafer	145,998

MAXIMUM RATINGS:

Operating and Storage Junction Temperature

SYMBOL

T_J, T_{stg}

-65 to +150

UNITS

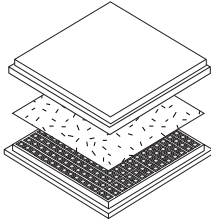
°C

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.5\text{V MAX @ } I_F=100\text{mA}$ (for all types)

Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current	Maximum Reverse Leakage Current		Maximum Voltage Change*	Maximum Regulator Current
	MIN	NOM	MAX	I_{ZT}	$I_R @ V_R$		ΔV_Z	I_{ZM}
	V	V	V	μA	μA	V	V	mA
CPZ59X-1N4703	15.20	16	16.80	50	0.05	12.1	0.16	15.4
CPZ59X-1N4704	16.15	17	17.85	50	0.05	12.9	0.17	14.5
CPZ59X-1N4705	17.10	18	18.90	50	0.05	13.6	0.18	13.2
CPZ59X-1N4706	18.05	19	19.95	50	0.05	14.4	0.19	12.5
CPZ59X-1N4707	19.00	20	21.00	50	0.01	15.2	0.20	11.9
CPZ59X-1N4708	20.90	22	23.10	50	0.01	16.7	0.22	10.8
CPZ59X-1N4709	22.80	24	25.20	50	0.01	18.2	0.24	9.9
CPZ59X-1N4710	23.75	25	26.25	50	0.01	19.0	0.25	9.5
CPZ59X-1N4711	25.65	27	28.35	50	0.01	20.4	0.27	8.8
CPZ59X-1N4712	26.60	28	29.40	50	0.01	21.2	0.28	8.5
CPZ59X-1N4713	28.50	30	31.50	50	0.01	22.8	0.30	7.9
CPZ59X-1N4714	31.35	33	34.65	50	0.01	25.0	0.33	7.2
CPZ59X-1N4715	34.20	36	37.80	50	0.01	27.3	0.36	6.6
CPZ59X-1N4716	37.05	39	40.95	50	0.01	29.6	0.39	6.1
CPZ59X-1N4717	40.85	43	45.15	50	0.01	32.6	0.43	5.5

* $\Delta V_Z = V_Z @ 100\mu\text{A}$ Minus $V_Z @ 10\mu\text{A}$

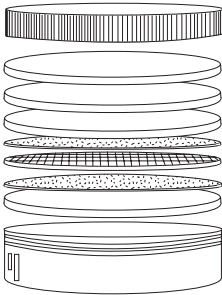
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

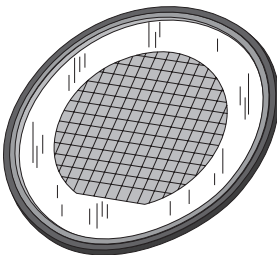
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

CM: Singulated die in tray (waffle) pack 100% visually inspected as per MIL-STD-750, (method 2072 transistors, method 2073 diodes).
(example: CP211-PART NUMBER-CM)



UNSAWN WAFER

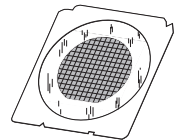
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



SAWN WAFER ON PLASTIC RING

WR: Full wafer, sawn and mounted on plastic ring,
100% tested with reject die inked.
(example: CP211-PART NUMBER-WR)

Please note: Sawn Wafer on Metal Frame (WS) is possible as a special order. Please contact your Central Sales Representative at 631-435-1110.



Visit the Central website for a complete listing of specifications:
www.centrasemi.com/bdspecs

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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