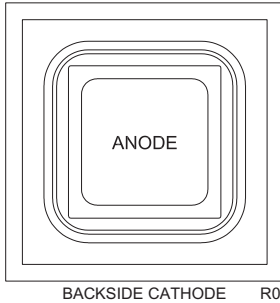


The CPZ59X-BZX84C16 thru CPZ59X-BZX84C47 are silicon Zener diodes ideal for all types of commercial, industrial, entertainment, and computer applications.



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

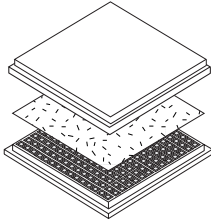
UNITS

°C

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=0.9\text{V MAX @ } I_F=10\text{mA}$ (for all types)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT	MAXIMUM TEMPERATURE COEFFICIENT
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	$I_R @ V_R$	I_{ZM}	Θ_{VZ}		
	V	V	V	mA	Ω	Ω	μA	V	mA	% / °C	
CPZ59X-BZX84C16	15.3	16	17.1	5.0	40	200	1.0	0.05	11.2	16	0.08
CPZ59X-BZX84C18	16.8	18	19.1	5.0	45	225	1.0	0.05	12.6	14	0.08
CPZ59X-BZX84C20	18.8	20	21.2	5.0	55	225	1.0	0.05	14.0	12	0.08
CPZ59X-BZX84C22	20.8	22	23.3	5.0	55	250	1.0	0.05	15.4	11	0.09
CPZ59X-BZX84C24	22.8	24	25.6	5.0	70	250	1.0	0.05	16.8	10	0.09
CPZ59X-BZX84C27	25.1	27	28.9	2.0	80	300	0.5	0.05	18.9	9	0.09
CPZ59X-BZX84C30	28.0	30	32.0	2.0	80	300	0.5	0.05	21.0	8	0.09
CPZ59X-BZX84C33	31.0	33	35.0	2.0	80	325	0.5	0.05	23.1	7	0.09
CPZ59X-BZX84C36	34.0	36	38.0	2.0	90	350	0.5	0.05	25.2	6.9	0.09
CPZ59X-BZX84C39	37.0	39	41.0	2.0	130	350	0.5	0.05	27.3	6.4	0.09
CPZ59X-BZX84C43	40.0	43	46.0	2.0	150	375	0.5	0.05	30.1	5.8	0.10
CPZ59X-BZX84C47	44.0	47	50.0	2.0	170	375	0.5	0.05	32.9	5.3	0.10

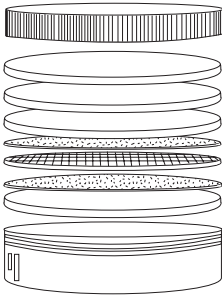
BARE DIE PACKING OPTIONS



BARE DIE IN TRAY (WAFFLE) PACK

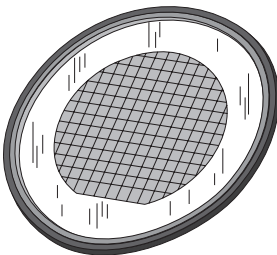
CT: Singulated die in tray (waffle) pack.
(example: CP211-PART NUMBER-CT)

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

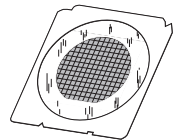
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



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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