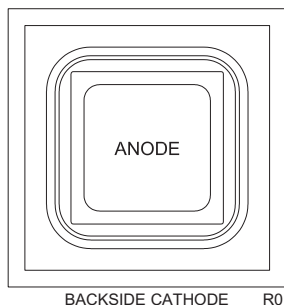


**CPZ58X-1N4614 THRU
CPZ58X-1N4627
Zener Diode Die
250mW, 1.8 THRU 6.2 VOLT**

The CPZ58X-1N4614 thru CPZ58X-1N4627 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	AlSiCu – 35,000Å
Back Side Metalization	AuAs – 12,000Å
Scribe Alley Width	1.69 MILS
Wafer Diameter	6 INCHES
Gross Die Per Wafer	142,858

MAXIMUM RATINGS:

Operating and Storage Junction Temperature

SYMBOL

T_J , T_{stg}

-65 to +150

UNITS

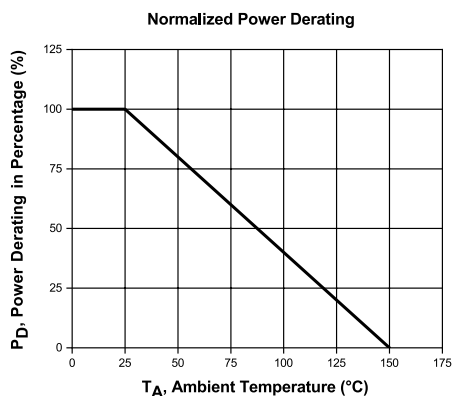
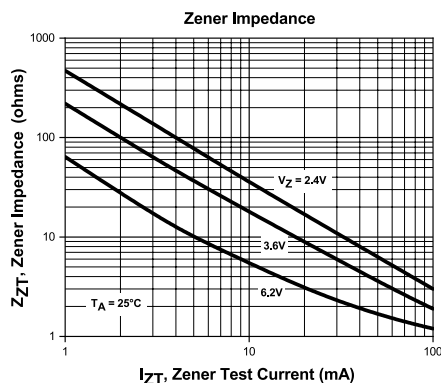
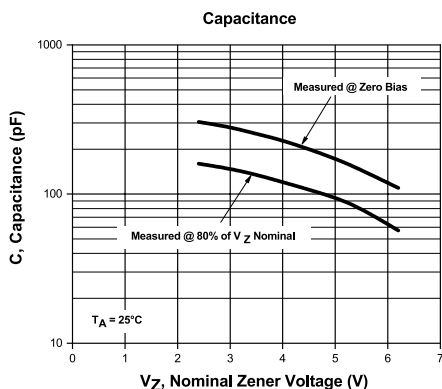
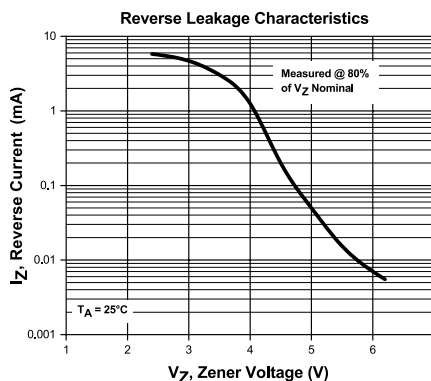
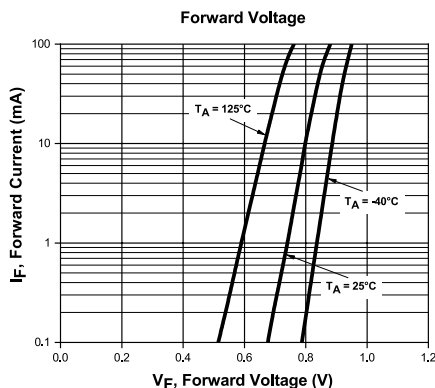
°C

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$) $V_F=1.0\text{V MAX @ } I_F=200\text{mA}$ (for all types)

Type	Zener Voltage $V_Z @ I_{ZT}$			Test Current	Maximum Zener Impedance	Maximum Reverse Current		Maximum Zener Current	Maximum Noise Density
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$I_R @ V_R$		I_{ZM}	$N_D @ 250\mu\text{A}$
	V	V	V	μA	Ω	μA	V	mA	$\mu\text{V}/\sqrt{\text{Hz}}$
CPZ58X-1N4614	1.710	1.8	1.890	250	1200	7.5	1.0	120	1.0
CPZ58X-1N4615	1.900	2.0	2.100	250	1250	5.0	1.0	110	1.0
CPZ58X-1N4616	2.090	2.2	2.310	250	1300	4.0	1.0	100	1.0
CPZ58X-1N4617	2.280	2.4	2.520	250	1400	2.0	1.0	95	1.0
CPZ58X-1N4618	2.565	2.7	2.835	250	1500	1.0	1.0	90	1.0
CPZ58X-1N4619	2.850	3.0	3.150	250	1600	0.8	1.0	85	1.0
CPZ58X-1N4620	3.135	3.3	3.465	250	1650	7.5	1.5	80	1.0
CPZ58X-1N4621	3.420	3.6	3.780	250	1700	7.5	2.0	75	1.0
CPZ58X-1N4622	3.705	3.9	4.095	250	1650	5.0	2.0	70	1.0
CPZ58X-1N4623	4.085	4.3	4.515	250	1600	4.0	2.0	65	1.0
CPZ58X-1N4624	4.465	4.7	4.935	250	1550	10	3.0	60	1.0
CPZ58X-1N4625	4.845	5.1	5.355	250	1500	10	3.0	55	2.0
CPZ58X-1N4626	5.320	5.6	5.880	250	1400	10	4.0	50	4.0
CPZ58X-1N4627	5.890	6.2	6.510	250	1200	10	5.0	45	5.0

CPZ58X-1N4614 THRU CPZ58X-1N4627

Typical Electrical Characteristics



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

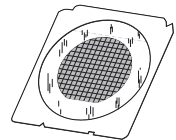
WN: Full wafer, unsawn, 100% tested with reject die inked.
(example: CP211-PART NUMBER-WN)



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).

CONTACT US

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