

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CMZ5913B THRU CMZ5956B

SURFACE MOUNT SILICON ZENER DIODES 1.5 WATT, 3.3 THRU 200 VOLT ± 5% TOLERANCE





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMZ5913B series 1.5 Watt surface mount silicon Zener diodes are highly reliable components designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where small size is required. The SMA case occupies 30% less board space than the SMB case.

MARKING: SEE MARKING CODE ON ELECTRICAL CHARACTERISTIC TABLE

FEATURES:

- · Super miniature case
- · 200 Watts of TVS power
- ± 5% Tolerance

- · High reliability
- "C" bend construction provides strain relief when mounted on pc board

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)	SYMBOL		UNITS		
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	20	Α		
Power Dissipation (T _L =75°C)	P_{D}	1.5	W		
Power Dissipation (Note 1)	P_{D}	0.5	W		
Peak Power Dissipation, tp=10x1000µs (T _L <25°C)	P_{PK}	200	W		
Peak Power Dissipation, tp=8x20µs (T _L <25°C)	P_{PK}	1000	W		
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C		
Thermal Resistance	$\Theta_{\sf JL}$	50	°C/W		
Thermal Resistance (Note 1) Θ_{JA} 250 °C/W Note 1: Mounted on 2 inch square FR-4 PCB with minimum recommended SMA copper pad area.					

ELECTRICAL CHARACTERISTICS: (TA=25°C) VF=1.5V MAX @ IF=200mA (for all types)

TYPE		ZENER VOLTAGE V _Z @ I _{ZT}	-	TEST CURRENT	MAXI ZEN IMPED	NER		REV	IMUM ERSE RENT	MAXIMUM ZENER CURRENT (T _L =75°C)	MARKING CODE
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} (@ I _{ZK}	I _R (⊕ v _R	I _{ZM}	
	٧	٧	٧	mA	Ω	Ω	mA	μA	٧	mA	
CMZ5913B*	3.135	3.3	3.465	113.6	10	500	1.0	100	1.0	454	C5913B
CMZ5914B*	3.420	3.6	3.780	104.2	9.0	500	1.0	75	1.0	416	C5914B
CMZ5915B*	3.705	3.9	4.095	96.1	7.5	500	1.0	25	1.0	384	C5915B
CMZ5916B*	4.085	4.3	4.515	87.2	6.0	500	1.0	5.0	1.0	348	C5916B
CMZ5917B*	4.465	4.7	4.935	79.8	5.0	500	1.0	5.0	1.5	319	C5917B
CMZ5918B*	4.845	5.1	5.355	73.5	4.0	350	1.0	5.0	2.0	294	C5918B
CMZ5919B	5.320	5.6	5.880	66.9	2.0	250	1.0	5.0	3.0	267	C5919B
CMZ5920B	5.890	6.2	6.510	60.5	2.0	200	1.0	5.0	4.0	241	C5920B
CMZ5921B	6.460	6.8	7.140	55.1	2.5	200	1.0	5.0	5.2	221	C5921B
CMZ5922B	7.125	7.5	7.875	50.0	3.0	400	0.5	5.0	6.0	200	C5922B
CMZ5923B	7.790	8.2	8.610	45.7	3.5	400	0.5	5.0	6.5	183	C5923B
CMZ5924B	8.645	9.1	9.555	41.2	4.0	500	0.5	5.0	7.0	165	C5924B
CMZ5925B	9.500	10	10.50	37.5	4.5	500	0.25	5.0	8.0	150	C5925B
CMZ5926B	10.45	11	11.55	34.1	5.5	550	0.25	1.0	8.4	136	C5926B

^{*}Available on special order; minimum quantity may apply; consult factory.

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CMZ5913B THRU CMZ5956B

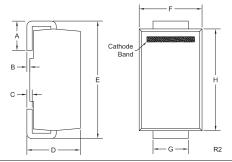
SURFACE MOUNT SILICON ZENER DIODES 1.5 WATT, 3.3 THRU 200 VOLT ± 5% TOLERANCE



$\textbf{ELECTRICAL CHARACTERISTICS - Continued:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ}\mbox{\scriptsize C}) \ V_{\mbox{\scriptsize F}} = 1.5\mbox{\scriptsize V MAX} \ @ \ I_{\mbox{\scriptsize F}} = 200\mbox{\scriptsize mA} \ (\mbox{for all types}) \ (\mbox{\scriptsize A} = 25^{\circ}\mbox{\scriptsize C}) \ V_{\mbox{\scriptsize F}} = 1.5\mbox{\scriptsize MAX} \ @ \ I_{\mbox{\scriptsize F}} = 200\mbox{\scriptsize mA} \ (\mbox{\scriptsize F}) \ (\mbox{\scriptsize MAX}) \ (\mbo$

TYPE		ZENER VOLTAGI V _Z @ I _{ZT}		TEST MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE CURRENT		MAXIMUM ZENER CURRENT (T _L =75°C)	MARKING CODE		
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	ZZK	שבו @	I _R (⊕ V _R	I _{ZM}	CODE
	v	V	v	mA	Ω	Ω	mA	μA	V	mA	
CMZ5927B	11.40	12	12.60	31.2	6.5	550	0.25	1.0	9.1	125	C5927B
CMZ5928B	12.35	13	13.65	28.8	7.0	550	0.25	1.0	9.9	115	C5928B
CMZ5929B	14.25	15	15.75	25.0	9.0	600	0.25	1.0	11.4	100	C5929B
CMZ5930B	15.20	16	16.80	23.4	10	600	0.25	1.0	12.2	94	C5930B
CMZ5931B	17.10	18	18.90	20.8	12	650	0.25	1.0	13.7	83	C5931B
CMZ5932B	19.00	20	21.00	18.7	14	650	0.25	1.0	15.2	75	C5932B
CMZ5933B	20.90	22	23.10	17.0	17.5	650	0.25	1.0	16.7	68	C5933B
CMZ5934B	22.80	24	25.20	15.6	19	700	0.25	1.0	18.2	63	C5934B
CMZ5935B	25.65	27	28.35	13.9	23	700	0.25	1.0	20.6	56	C5935B
CMZ5936B	28.50	30	31.50	12.5	26	750	0.25	1.0	22.8	50	C5936B
CMZ5937B	31.35	33	34.65	11.4	33	800	0.25	1.0	25.1	45	C5937B
CMZ5938B	34.20	36	37.80	10.4	38	850	0.25	1.0	27.4	42	C5938B
CMZ5939B	37.05	39	40.95	9.6	45	900	0.25	1.0	29.7	38	C5939B
CMZ5940B	40.85	43	45.15	8.7	53	950	0.25	1.0	32.7	35	C5940B
CMZ5941B	44.65	47	49.35	8.0	67	1000	0.25	1.0	35.8	32	C5941B
CMZ5942B	48.45	51	53.55	7.3	70	1100	0.25	1.0	38.8	29	C5942B
CMZ5943B	53.20	56	58.80	6.7	86	1300	0.25	1.0	42.6	27	C5943B
CMZ5944B	58.90	62	65.10	6.0	100	1500	0.25	1.0	47.1	24	C5944B
CMZ5945B	64.60	68	71.40	5.5	120	1700	0.25	1.0	51.7	22	C5945B
CMZ5946B	71.25	75	78.75	5.0	140	2000	0.25	1.0	56.0	20	C5946B
CMZ5947B	77.90	82	86.10	4.6	160	2500	0.25	1.0	62.2	18	C5947B
CMZ5948B	86.45	91	95.55	4.1	200	3000	0.25	1.0	69.2	16	C5948B
CMZ5949B	95.00	100	105.0	3.7	250	3100	0.25	1.0	76.0	15	C5949B
CMZ5950B	104.5	110	115.5	3.4	300	4000	0.25	1.0	83.6	13	C5950B
CMZ5951B	114.0	120	126.0	3.1	360	4500	0.25	1.0	91.2	12	C5951B
CMZ5952B	123.5	130	136.5	2.9	450	5000	0.25	1.0	98.8	11	C5952B
CMZ5953B	142.5	150	157.5	2.5	600	6000	0.25	1.0	114.0	10	C5953B
CMZ5954B	152.0	160	168.0	2.3	700	6500	0.25	1.0	121.6	9.0	C5954B
CMZ5955B	171.0	180	189.0	2.1	900	7000	0.25	1.0	136.8	8.0	C5955B
CMZ5956B	190.0	200	210.0	1.9	1200	8000	0.25	1.0	152.0	7.0	C5956B

SMA CASE - MECHANICAL OUTLINE



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.030	0.060	0.76	1.52	
В	0.004	0.008	0.10	0.20	
С	0.006	0.012	0.15	0.30	
D	0.078	0.103	1.98	2.62	
E	0.188	0.220	4.78	5.59	
F	0.090	0.115	2.29	2.92	
G	0.050	0.070	1.27	1.78	
Н	0.157	0.181	3.99	4.60	
			SMA (F	REV: R2)	

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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 guick 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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Product End of Life Notification

PDN ID:	PDN01081
Notification Date:	4/30/18
Last Buy Date:	10/30/18
Last Shipment Date	4/30/19

Summary: All low voltage Zener diodes, less than 5.6V, in the SMA, SMB and SMC case types are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
CMZ5334B BK	N/A
CMZ5334B TR13	N/A
CMZ5335B BK	N/A
CMZ5335B TR13	N/A
CMZ5336B BK	N/A
CMZ5336B TR13	N/A
CMZ5337B BK	N/A
CMZ5337B TR13	N/A
CMZ5338B BK	N/A
CMZ5338B TR13	N/A
CMZ5913B BK	N/A
CMZ5913B TR13	N/A
CMZ5914B BK	N/A
CMZ5914B TR13	N/A
CMZ5914BP BK	N/A
CMZ5914BP TR13	N/A
CMZ5915B BK	N/A
CMZ5915B TR13	N/A
CMZ5915BP TR13	N/A
CMZ5916B BK	N/A
CMZ5916B TR13	N/A
CMZ5916BP TR13	N/A
CMZ5917B BK	N/A
CMZ5917B TR13	N/A
CMZ5917BP BK	N/A
CMZ5917BP TR13	N/A
CMZ5918B BK	N/A
CMZ5918B TR13	N/A
CMZ5918BP BK	N/A
CMZ5918BP TR13	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centralsemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.

CCC785 REV 002