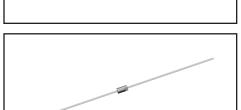
1N4460 THRU 1N4496

SILICON ZENER DIODES 1.5 WATT, 6.2 THRU 200 VOLT 5% TOLERANCE



DO-41 CASE



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N4460 series silicon Zener diode is a high quality voltage regulator designed for use in automotive, industrial, commercial, entertainment and computer applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C) Power Dissipation

Operating and Storage Junction Temperature

SYMBOL PD

1.5

UNITS W

T_J, T_{stg}

-65 to +200

°C

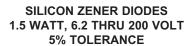
 $\textbf{ELECTRICAL CHARACTERISTICS:} \ (T_{\mbox{\scriptsize A}} = 25 \mbox{°C})$

TYPE	ZENER VOLTAGE		TEST CURRENT	MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM SURGE CURRENT (Note 1)		
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @	[®] Izκ	I _R @	v _R	IZM	IS
	V	V	V	mA	Ω	Ω	mA	μA	V	mA	Α
1N4460	5.890	6.2	6.510	40	4.0	200	1.0	20	3.72	230	5.5
1N4461	6.460	6.8	7.140	37	2.5	200	1.0	5.0	4.08	210	5.0
1N4462	7.125	7.5	7.875	34	2.5	400	0.5	1.0	4.50	191	4.5
1N4463	7.790	8.2	8.610	31	3.0	400	0.5	0.5	4.92	174	3.9
1N4464	8.645	9.1	9.555	28	4.0	500	0.5	0.3	5.46	157	3.4
1N4465	9.500	10	10.50	25	5.0	500	0.25	0.5	8.00	143	3.0
1N4466	10.45	11	11.55	23	6.0	550	0.25	0.3	8.80	130	2.6
1N4467	11.40	12	12.60	21	7.0	550	0.25	0.2	9.60	119	2.4
1N4468	12.35	13	13.65	19	8.0	550	0.25	0.1	10.40	110	2.2
1N4469	14.25	15	15.75	17	9.0	600	0.25	0.05	12.00	95	1.8
1N4470	15.20	16	16.80	15.5	10	600	0.25	0.05	12.80	90	1.6
1N4471	17.10	18	18.90	14	11	650	0.25	0.05	14.40	79	1.4
1N4472	19.00	20	21.00	12.5	12	650	0.25	0.05	16.00	71	1.2
1N4473	20.90	22	23.10	11.5	14	650	0.25	0.05	17.60	65	1.1
1N4474	22.80	24	25.20	10.5	16	700	0.25	0.05	19.20	60	0.90
1N4475	25.65	27	28.35	9.5	18	700	0.25	0.05	21.60	53	0.80
1N4476	28.50	30	31.50	8.5	20	750	0.25	0.05	24.00	48	0.75
1N4477	31.35	33	34.65	7.5	25	800	0.25	0.05	26.40	43	0.66
1N4478	34.20	36	37.80	7.0	27	850	0.25	0.05	28.80	40	0.60
1N4479	37.05	39	40.95	6.5	30	900	0.25	0.05	31.20	37	0.54
1N4480	40.85	43	45.15	6.0	40	950	0.25	0.05	34.40	33	0.48

Notes: (1) Ratings shown are for peak 1/2 sinusoidal surge current of 8.3ms duration, non-repetitive.

R4 (4-June 2013)

1N4460 THRU 1N4496



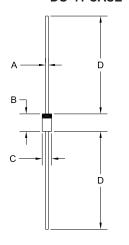


$\textbf{ELECTRICAL CHARACTERISTICS - Continued:} \ (T_{\mbox{\scriptsize A}} = 25^{\circ} \mbox{\scriptsize C})$

TYPE	ZENER VOLTAGE		TEST CURRENT	MAXIMUM ZENER IMPEDANCE		MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM SURGE CURRENT (Note 1)		
	MIN	NOM	MAX	I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} (⊕ l _{ZK}	I _R @	v _R	I _{ZM}	IS
	٧	V	V	mA	Ω	Ω	mA	μΑ	V	mA	Α
1N4481	44.65	47	49.35	5.5	50	1000	0.25	0.05	37.6	30	0.45
1N4482	48.45	51	53.55	5.0	60	1100	0.25	0.05	40.8	28	0.42
1N4483	53.20	56	58.80	4.5	70	1300	0.25	0.05	44.8	26	0.39
1N4484	58.90	62	65.10	4.0	80	1500	0.25	0.05	49.6	23	0.35
1N4485	64.60	68	71.40	3.7	100	1700	0.25	0.05	54.4	21	0.32
1N4486	71.25	75	78.75	3.3	130	2000	0.25	0.05	60.0	19	0.29
1N4487	77.90	82	86.10	3.0	160	2500	0.25	0.05	65.6	17	0.26
1N4488	86.45	91	95.55	2.8	200	3000	0.25	0.05	72.8	16	0.23
1N4489	95.00	100	105.0	2.5	250	3100	0.25	0.05	80.0	14	0.20
1N4490	104.5	110	115.5	2.3	300	4000	0.25	0.05	88.0	13	0.19
1N4491	114.0	120	126.0	2.0	400	4500	0.25	0.05	96.0	12	0.18
1N4492	123.5	130	136.5	1.9	500	5000	0.25	0.05	104	11	0.16
1N4493	142.5	150	157.5	1.7	700	6000	0.25	0.05	120	9.5	0.14
1N4494	152.0	160	168.0	1.6	1000	6500	0.25	0.05	128	8.9	0.12
1N4495	171.0	180	189.0	1.4	1300	7000	0.25	0.05	144	7.9	0.10
1N4496	190.0	200	210.0	1.2	1500	8000	0.25	0.05	160	7.2	0.08

DO-41 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.028	0.034	0.71	0.86			
В	0.160	0.205	4.06	5.21			
С	0.080	0.107	2.03	2.72			
D	1.000	-	25.40	-			

DO-41 (REV: R1)

R4 (4-June 2013)

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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA

Main Tel: (631) 435-1110 Main Fax: (631) 435-1824

Support Team Fax: (631) 435-3388

www.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

Worldwide Distributors:

www.centralsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centralsemi.com/terms

www.centralsemi.com (001)



Product End of Life Notification

PDN ID:	PDN01280
Notification Date:	4/04/25
Last Buy Date:	
Last Shipment Date	Stock Only

https://www.centralsemi.com

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. Orders can only be accepted for products with available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor, LLC

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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 003



Product End of Life Notification

PDN ID:	PDN01280
Notification Date:	4/04/25
Last Buy Date:	
Last Shipment Date	Stock Only

https://www.centralsemi.com

Summary: All devices in the 1N4460 Zener diode series are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor 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 Portfolio Management. 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.

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement	
1N4460 TR	N/A	
1N4461 BK	N/A	
1N4461 TR	N/A	
1N4462 BK	N/A	
1N4462 TR	N/A	
1N4463 BK	N/A	
1N4464 BK	N/A	
1N4465 BK	N/A	
1N4465 TR	N/A	
1N4466 BK	N/A	
1N4466 TR	N/A	
1N4467 BK	N/A	
1N4467 TR	N/A	
1N4468 BK	N/A	
1N4469 BK	N/A	
1N4469 TR	N/A	
1N4470 BK	N/A	
1N4470 TR	N/A	
1N4471 BK	N/A	
1N4471 TR	N/A	
1N4472 BK	N/A	
1N4473 BK	N/A	
1N4474 BK	N/A	
1N4474 TR	N/A	
1N4475 BK	N/A	
1N4475 TR	N/A	
1N4476 BK	N/A	
1N4476 TR	N/A	
1N4477 BK	N/A	
1N4477 TR	N/A	
1N4478 BK	N/A	
1N4479 BK	N/A	
1N4479 TR	N/A	
1N4480 BK	N/A	
1N4480 TR	N/A	
1N4482 BK	N/A	
* CONTINUED ***		

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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 003



Product End of Life Notification

PDN ID:	PDN01280
Notification Date:	4/04/25
Last Buy Date:	
Last Shipment Date	Stock Only

https://www.centralsemi.com

*** CONTINUED FROM PRIOR PAGE **;

* All Plating types (PBFREE,TIN/LEAD) for each item listed are included in this notice.

Central Part Number	Suggested Replacement
1N4484 BK	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. If you would like assistance, please visit https://my.centralsemi.com/submit-inquiry?type=ER to submit an online inquiry.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor 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 003