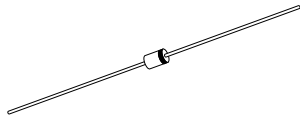


1N4460 THRU 1N4496
SILICON ZENER DIODE
1.5 WATT, 6.2 THRU 200 VOLTS
5% TOLERANCE



DO-41 CASE

CentralTM

Semiconductor Corp.

DESCRIPTION:

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

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: ($T_A=25^{\circ}\text{C}$)

Power Dissipation
Operating and Storage Junction Temperature

SYMBOL

P_D 1.5
 T_J, T_{stg} -65 to +200

UNITS

W
 $^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^{\circ}\text{C}$)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM SURGE CURRENT*
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZT} @ I_{ZK}$	$I_R @ V_R$	I_{ZM}	I_S		
	V	V	V	mA	Ω	Ω mA	μA V	mA	A		
1N4460	5.89	6.2	6.51	40	4.0	200	1.0	20	3.72	230	5.5
1N4461	6.46	6.8	7.14	37	2.5	200	1.0	5.0	4.08	210	5.0
1N4462	7.13	7.5	7.88	34	2.5	400	0.5	1.0	4.50	191	4.5
1N4463	7.79	8.2	8.61	31	3.0	400	0.5	0.5	4.92	174	3.9
1N4464	8.65	9.1	9.56	28	4.0	500	0.5	0.3	5.46	157	3.4
1N4465	9.50	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

*Ratings shown are for peak 1/2 sinusoidal surge current of 8.3ms duration, non-repetative.

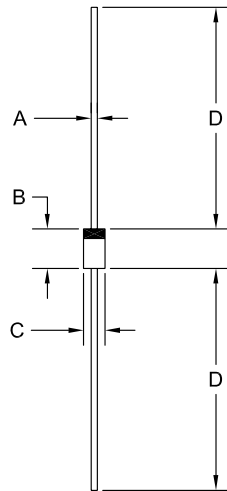
R3 (15-September 2009)

ELECTRICAL CHARACTERISTICS - Continued: ($T_A=25^\circ\text{C}$)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM SURGE CURRENT*
	MIN	NOM	MAX	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZT} @ I_{ZK}$	$I_R @ V_R$	I_{ZM}	I_S		
	V	V	V	mA	Ω	Ω mA				μA	V
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

*Ratings shown are for peak 1/2 sinusoidal surge current of 8.3ms duration, non-repetative.

DO-41 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.160	0.205	4.06	5.21
C	0.080	0.107	2.03	2.72
D	1.000	-	25.40	-

DO-41 (REV: R1)

R1

R3 (15-September 2009)