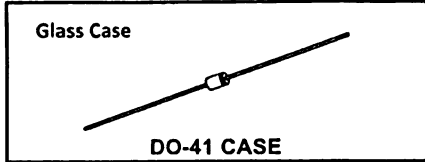


1N4460
THRU
1N4496

**1.5 WATT ZENER DIODE
6.2 VOLTS TO 200 VOLTS
5% TOLERANCE**



MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)
Power Dissipation
Operating and Storage Temperature



SOLID STATE INC.

46 FARRAND STREET
BLOOMFIELD, NEW JERSEY 07003

www.solidstateinc.com

DESCRIPTION:

1N4460

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

MARKING CODE: FULL PART NUMBER

SYMBOL		UNITS
P_D	1.5	W
T_J, T_{stg}	-65 to +200	$^\circ\text{C}$

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*	ZENER VOLTAGE REGULATION FACTOR** ΔV_Z
	MIN	NOM	MAX		I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZT} @ I_{ZK}$	$I_R @ V_R$				
	V	V	V		mA	Ω	Ω	μA	V			
1N4460	5.89	6.2	6.51	40	4.0	200	1.0	20	3.72	230	5.5	0.35
1N4461	6.48	6.8	7.14	37	2.5	200	1.0	5.0	4.08	210	5.0	0.30
1N4462	7.13	7.5	7.88	34	2.5	400	0.5	1.0	4.50	191	4.5	0.35
1N4463	7.79	8.2	8.61	31	3.0	400	0.5	0.5	4.92	174	3.9	0.40
1N4464	8.65	9.1	9.56	28	4.0	500	0.5	0.3	5.46	157	3.4	0.45
1N4465	9.50	10	10.50	25	5.0	500	0.25	0.5	8.00	143	3.0	0.50
1N4466	10.45	11	11.55	23	6.0	550	0.25	0.3	8.80	130	2.6	0.55
1N4467	11.40	12	12.60	21	7.0	550	0.25	0.2	9.60	119	2.4	0.60
1N4468	12.35	13	13.65	19	8.0	550	0.25	0.1	10.40	110	2.2	0.65
1N4469	14.25	15	15.75	17	9.0	600	0.25	0.05	12.00	95	1.8	0.75
1N4470	15.20	16	16.80	15.5	10	600	0.25	0.05	12.80	90	1.6	0.80
1N4471	17.10	18	18.90	14	11	650	0.25	0.05	14.40	79	1.4	0.83
1N4472	19.00	20	21.00	12.5	12	650	0.25	0.05	16.00	71	1.2	0.85
1N4473	20.90	22	23.10	11.5	14	650	0.25	0.05	17.60	65	1.1	1.00
1N4474	22.80	24	25.20	10.5	16	700	0.25	0.05	19.20	60	0.90	1.10
1N4475	25.65	27	28.35	9.5	18	700	0.25	0.05	21.60	53	0.80	1.30
1N4476	28.50	30	31.50	8.5	20	750	0.25	0.05	24.00	48	0.75	1.40
1N4477	31.35	33	34.65	7.5	25	800	0.25	0.05	26.40	43	0.66	1.50
1N4478	34.20	36	37.80	7.0	27	850	0.25	0.05	28.80	40	0.60	1.70
1N4479	37.05	39	40.95	6.5	30	900	0.25	0.05	31.20	37	0.54	1.80
1N4480	40.85	43	45.15	6.0	40	950	0.25	0.05	34.40	33	0.48	1.90

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

** Zener voltage shall be measured at 10% of the I_{ZM} (Maximum DC Current). The current shall then be increased to 50% of the I_{ZM} and maintained at this level for a period of 90 seconds, at which time the absolute value of the change in Zener voltage ($V_Z @ 10\% - V_Z @ 50\%$) shall not exceed the Zener Voltage Regulation Factor. The device is to be suspended by its leads $3/8"$ from the body in free air at 25°C .

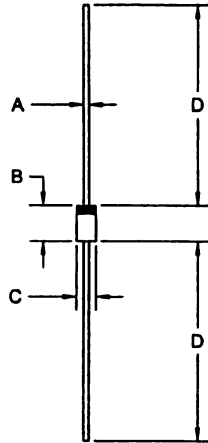
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ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$)

TYPE	ZENER VOLTAGE $V_Z @ I_{ZT}$			TEST CURRENT	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE CURRENT		MAXIMUM DC CURRENT	MAXIMUM SURGE CURRENT*	ZENER VOLTAGE REGULATION FACTOR** ΔV_Z
	MIN	NOM	MAX		$Z_{ZT} @ I_{ZT}$	$Z_{ZT} @ I_{ZK}$	$I_R @ V_R$					
	V	V	V	mA	Ω	Ω	mA	μA	V	mA	A	V
1N4481	44.65	47	49.35	5.5	50	1000	0.25	0.05	37.6	30	0.45	2.1
1N4482	48.45	51	53.55	5.0	60	1100	0.25	0.05	40.8	28	0.42	2.3
1N4483	53.20	56	58.80	4.5	70	1300	0.25	0.05	44.8	26	0.39	2.5
1N4484	58.90	62	65.10	4.0	80	1500	0.25	0.05	49.6	23	0.35	2.7
1N4485	64.60	68	71.40	3.7	100	1700	0.25	0.05	54.4	21	0.32	3.0
1N4486	71.25	75	78.75	3.3	130	2000	0.25	0.05	60.0	19	0.29	3.3
1N4487	77.90	82	86.10	3.0	160	2500	0.25	0.05	65.6	17	0.26	3.6
1N4488	86.45	91	95.55	2.8	200	3000	0.25	0.05	72.8	16	0.23	4.0
1N4489	95.00	100	105.0	2.5	250	3100	0.25	0.05	80.0	14	0.20	4.4
1N4490	104.5	110	115.5	2.3	300	4000	0.25	0.05	88.0	13	0.19	5.0
1N4491	114.0	120	126.0	2.0	400	4500	0.25	0.05	96.0	12	0.18	5.5
1N4492	123.5	130	136.5	1.9	500	5000	0.25	0.05	104	11	0.16	6.0
1N4493	142.5	150	157.5	1.7	700	6000	0.25	0.05	120	9.5	0.14	7.0
1N4494	152.0	160	168.0	1.6	1000	6500	0.25	0.05	128	8.9	0.12	8.0
1N4495	171.0	180	189.0	1.4	1300	7000	0.25	0.05	144	7.9	0.10	10.0
1N4496	190.0	200	210.0	1.2	1500	8000	0.25	0.05	160	7.2	0.08	12.0

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

Glass Case