

# SENSITRON SEMICONDUCTOR

1N4460 thru 1N4496  
1N4460US thru 1N4496US

## TECHNICAL DATA DATA SHEET 5080, Rev B.2

**1N44xx**  
\*SJ44xx / \*SX44xx / \*SV44xx  
\*SS44xx

### Zener 1.5W DIODE

- Ultra-low reverse leakage current
- Zener voltage available from 9.1V to 160V
- Sharp Zener knee
- Metallurgically bonded
- Hermetic, non-cavity glass package
- Lead finish SN63
- Operating Temperature: -65°C to +175°C.
- Storage Temperature: -65°C to +200°C.
- Power Dissipation: 1.5 Watts @ TA = 25oC

\*Sensitron space equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.

Electrical characteristics – Temperature 25°C unless otherwise noted

Part Number	Nominal Zener Voltage Vz	Test current I <sub>ZT</sub>	Max Dynamic Impedance Z <sub>ZK</sub> @ I <sub>ZK</sub>	Max Knee Impedance I <sub>ZK</sub> @ I <sub>ZK</sub>		Max Continuous Current I <sub>ZM</sub>	Max Surge Current I <sub>ZSM</sub>	Maximum Reverse Current I <sub>R</sub> @ V <sub>R</sub>	
	V	mA	Ω	Ω	mA	mA	A	μA	V
1N4460/US	6.2	40	4	200	1	230	2.3	10	3.72
1N4461/US	6.8	37	2.5	200	1	210	2.1	5	4.08
1N4462/US	7.5	34	2.5	400	0.5	191	1.9	1	4.50
1N4463/US	8.2	31	3	400	0.5	174	1.7	.5	4.92
1N4464/US	9.1	28.0	4	500	0.5	157	1.6	.30	5.46
1N4465/US	10.0	25.0	5	500	.25	143	1.4	.30	8.00
1N4466/US	11.0	23.0	6	550	.25	130	1.3	.30	8.80
1N4467/US	12.0	21.0	7	550	.25	119	1.2	.20	9.60
1N4468/US	13.0	19.0	8	550	.25	110	1.1	.05	10.40
1N4469/US	15.0	17.0	9	600	.25	95	.95	.05	12.00
1N4470/US	16.0	15.5	10	600	.25	90	.90	.05	12.80
1N4471/US	18.0	14.0	11	650	.25	79	.79	.05	14.40
1N4472/US	20.0	12.5	12	650	.25	71	.71	.05	16.00
1N4473/US	22.0	11.5	14	650	.25	65	.65	.05	17.60
1N4474/US	24.0	10.5	16	700	.25	60	.60	.05	19.20
1N4475/US	27.0	9.5	18	700	.25	53	.53	.05	21.60
1N4476/US	30.0	8.5	20	750	.25	48	.48	.05	24.00
1N4477/US	33.0	7.5	25	800	.25	43	.43	.05	26.40
1N4478/US	36.0	7.0	27	850	.25	40	.40	.05	28.80
1N4479/US	39.0	6.5	30	900	.25	37	.37	.05	31.20
1N4480/US	43.0	6.0	40	950	.25	33	.33	.05	34.40
1N4481/US	47.0	5.5	50	1000	.25	30	.30	.05	37.60
1N4482/US	51.0	5.0	60	1100	.25	28	.28	.05	40.80
1N4483/US	56.0	4.5	70	1300	.25	26	.26	.25	44.80
1N4484/US	62.0	4.0	80	1500	.25	23	.23	.25	49.60
1N4485/US	68.0	3.7	100	1700	.25	21	.21	.25	54.40
1N4486/US	75.0	3.3	130	2000	.25	19	.19	.25	60.40
1N4487/US	82.0	3.0	160	2500	.25	17	.17	.25	65.60
1N4488/US	91.0	2.8	200	3000	.25	16	.16	.25	72.80
1N4489/US	100.0	2.5	250	3100	.25	14	.14	.25	80.00
1N4490/US	110.0	2.0	300	4000	.25	13	.13	.25	88.00
1N4491/US	120.0	2.0	400	4500	.25	12	.12	.25	96.00
1N4492/US	130.0	1.9	500	5000	.25	11	.11	.25	104.00
1N4493/US	150.0	1.7	700	6000	.25	9.5	.095	.25	120.00
1N4494/US	160.0	1.6	1000	6500	.25	8.9	.089	.25	128.00
1N4495/US	180.0	1.4	1300	7000	.25	7.9	.079	.25	144.00
1N4496/US	200.0	1.2	1500	8000	.25	7.2	.072	.25	160.00

\* Dc TA=+150°C IR2

**1N4460 thru 1N4496  
1N4460US thru 1N4496US**

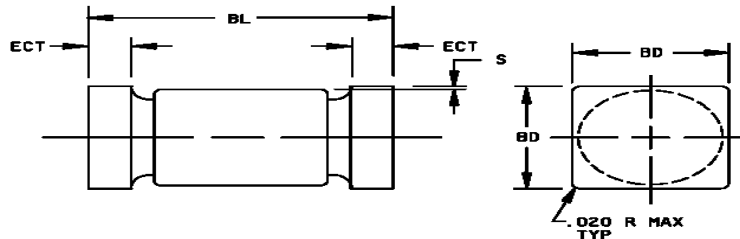
**SENSITRON**

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**1N4464 thru 1N4496**

PACKAGE STYLE	DIMENSIONS - INCHES ( MILLIMETERS)			
	phi B	phi D	G	L
Similar to DO-41	.028/.032 0.71/0.81	.060/.085 1.52/2.16	.106/.160 2.69/4.06	.80/1.30 20.32/33.02



**1N4464US thru 1N4496US**

PACKAGE STYLE	DIMENSIONS - INCHES ( MILLIMETERS)			
	BL	BD	S	ECT
MELF	.168/.200 4.28/5.08	.091/.103 2.31/2.62	0.003 Min 0.008min	.019/0.28 0.48/0.71

**PART ORDERING INFORMATION:**

The following part numbers can be purchased in either axial or surface mount devices and screened and tested to the military screening flow. The parts are marked in accordance with the testing performed, example:

Sensitron Screening Level	Part Number- Leaded Package (example for 1N4460)	Part Number- Surface Mount Package (example for 1N4460US)
<b>SJ</b>	SJ4460	SJ4460US
<b>SX</b>	SX4460	SX4460US
<b>SV</b>	SV4460	SV4460US
<b>SS</b>	SS4460	SS4460US

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