1N4460 thru 1N4496 1N4460US thru 1N4496US

1N44xx *SJ44xx / *SX44xx / *SV44xx

*SS44xx

TECHNICAL DATA DATA SHEET 5080, Rev B.2

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

Electrical characteristics – Temperature 25°C unless otherwise noted

*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.

water tabilitation through assembly and testing using our internal specification.

Part Number	Nominal Zener Voltage Vz	Test current I _{ZT}	Max Dynamic Impedance Z _{ZK} @ I _{ZK}	Impe	k Knee edance @ I _{ZK}	Max Continuous Current I _{ZM}	Max Surge Current I _{ZSM}	Rev Cu	imum verse rrent D V _R
	V	mA	Ω	Ω	mA	mA	Α	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

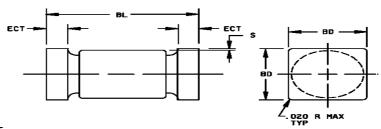
SENSITRON

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1N4464 thru 1N4496

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



1N4464US thru 1N4496__

PACKAGE	DIMENSIONS - INCHES (M	ILLIMETERS)		
STYLE	BL	BD	S	ECT
	.168/.200	.091/.103	0.003 Min	.019/.028
MELF	4.28/5.08	2.31/2.62	0.008min	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)		
SJ	SJ4460	SJ4460US		
SX	SX4460	SX4460US		
sv	SV4460	SV4460US		
SS	SS4460	SS4460US		

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