

**TECHNICAL DATA**  
**DATA SHEET 5080, Rev B.3**

**Zener 1.5W DIODE**

- Ultra-low reverse leakage current
- Zener voltage available from 6.2V to 200V
- Sharp Zener knee
- Metallurgically bonded, hermetic, non-cavity glass package
- Lead finish SN63
- Operating Temperature: -65oC to +175oC.
- Storage Temperature: -65oC to +200oC.
- Power Dissipation: 1.5 Watts @ TA = 25oC
- All parts are 100% hot solder dipped
- JAN/ JANTX/ JANTXV available per MIL-PRF-19500/460
- JANS Plus removes atypical/out of family V<sub>F</sub>

**AVAILABLE AS**  
**1N**  
**JAN, JANTX, JANTXV**  
**JANS**  
**JAN EQUIVALENT \***  
**SJ44XX\*, SX44XX\*, SV44XX\***  
**SS44XX\***

**Standard Recovery Rectifiers**

*Qualified per MIL-PRF-19500/406*

Electrical characteristics – Temperature 25°C unless otherwise noted

Part Number	Nominal Zener Voltage V <sub>Z</sub>	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>	
				Ω	mA			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
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

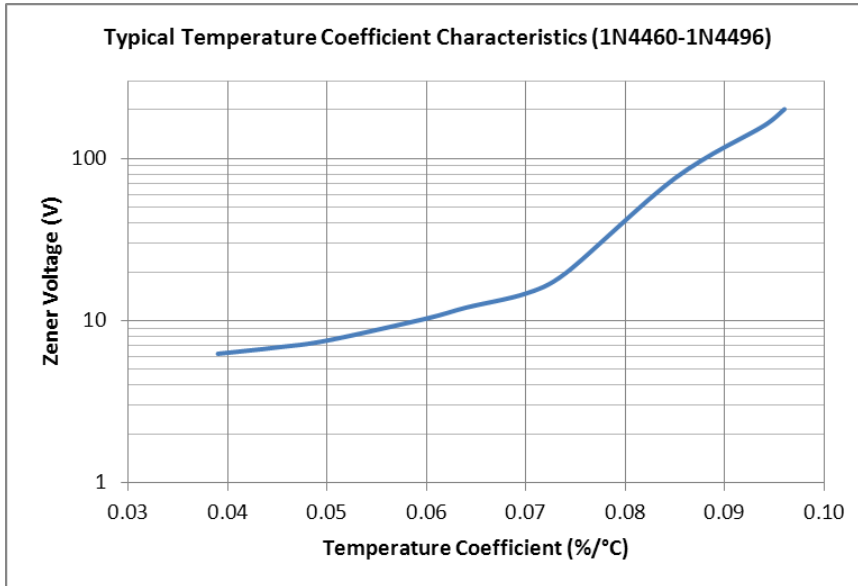
*\*Sensitron space equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.*

SENSITRON

TECHNICAL DATA

DATA SHEET 5080, Rev B.2

GRAPHS

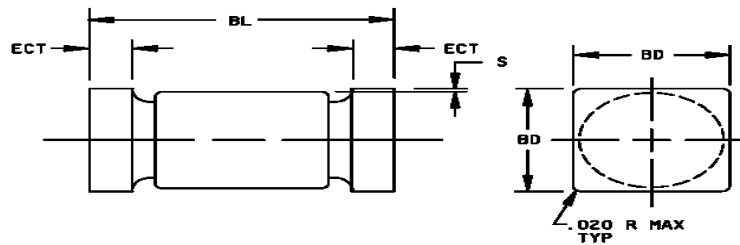


PACKAGE DIMENSIONS (inches/mm)



1N4464 thru 1N4496

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



1N4464US thru 1N4496US

PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	BL	BD	S	ECT
MELF	.168/.200	.091/.103	0.003 Min	.019/.028
	4.28/5.08	2.31/2.62	0.008min	0.48/0.71

**SENSITRON**

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**PART ORDERING INFORMATION**

The following part numbers can be 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>1N</b>	1N4460	1N4460US
<b>JAN</b>	JAN1N4460	JAN1N4460US
<b>SJ</b>	SJ4460	SJ4460US
<b>JANTX</b>	JANTX1N4460	JANTX1N4460US
<b>SX</b>	SX4460	SX4460US
<b>JANTXV</b>	JANTXV1N4460	JANTXV1N4460US
<b>SV</b>	SV4460	SV4460US
<b>JANS</b>	JANS1N4460	JANS1N4460US
<b>SS</b>	SS4460	SS4460US

\*Parts can also be ordered Tape & Reel

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