

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_F

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 _Z	Test current I _{ZT}	Max Dynamic Impedance Z _{ZK} @ I _{ZK}	Max Knee Impedance I _{ZK} @ I _{ZK}		Max Continuous Current I _{ZM}	Max Surge Current I _{ZSM}	Maximum Reverse Current I _R @ V _R	
				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

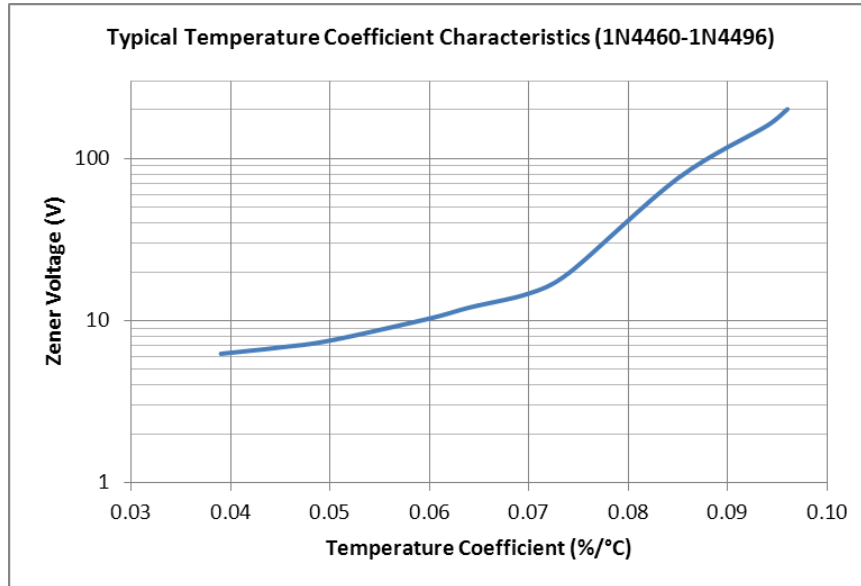
**Sensitron space equivalent diodes are manufactured and screened to MIL-PRF-19500 flow and guidelines starting from wafer fabrication through assembly and testing using our internal specification.*

SENSITRON

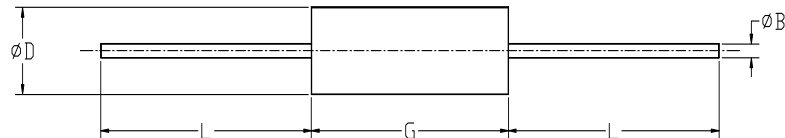
TECHNICAL DATA

DATA SHEET 5080, Rev B.2

GRAPHS

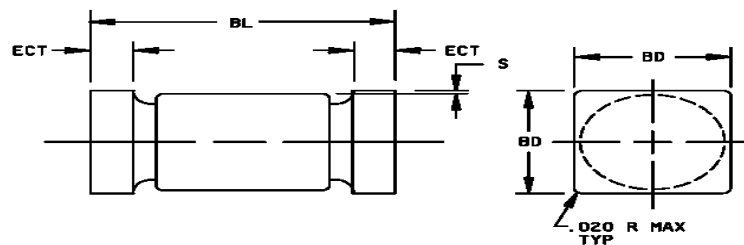


PACKAGE DIMENSIONS (inches/mm)



1N4464 thru 1N4496

PACKAGE STYLE	DIMENSIONS - INCHES (MILLIMETERS)			
	ϕB	ϕD	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

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TECHNICAL DATA

DATA SHEET 5080, Rev B.2

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)
1N	1N4460	1N4460US
JAN	JAN1N4460	JAN1N4460US
SJ	SJ4460	SJ4460US
JANTX	JANTX1N4460	JANTX1N4460US
SX	SX4460	SX4460US
JANTXV	JANTXV1N4460	JANTXV1N4460US
SV	SV4460	SV4460US
JANS	JANS1N4460	JANS1N4460US
SS	SS4460	SS4460US

*Parts can also be ordered Tape & Reel

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