1N5985B - 1N6025B — Zener Diodes



# 1N5985B - 1N6025B Zener Diodes



# Absolute Maximum Ratings \* T<sub>A</sub>=25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation @ TL $\leq$ 75°C, Lead Length = 3/8"	500	mW
	Derate above 75°C	4.0	mW/°C
$T_{J_{J}}T_{STG}$	Operating and Storage Temperature Range	-65 to +200	°C

\* These ratings are limiting values above which the serviceability of the diode may be impaired.

# **Electrical Characteristics** $T_A=25^{\circ}C$ unless otherwise noted

	V <sub>Z</sub> (V)	@Iz (N	lote 1)	Test Current	Zener Impedance		leakage Current		1 (mA)
Device	Min.	Тур.	Max.	I <sub>Z</sub> (mA)	Z <sub>Z</sub> @ I <sub>Z</sub> (Ω)	Z <sub>ZK</sub> @ I <sub>ZK</sub> = 250μA (Ω)	I <sub>R</sub> (mA)	V <sub>R</sub> (V)	I <sub>ZM</sub> (mA) (Note 2)
1N5985B	2.58	2.4	2.52	5	100	1800	100	1	208
1N5986B	2.565	2.7	2.835	5	100	1900	75	1	185
1N5987B	2.85	3	3.15	5	95	2000	50	1	167
1N5988B	3.135	3.3	3.465	5	95	2200	25	1	152
1N5989B	3.42	3.6	3.78	5	90	2300	15	1	139
1N5990B	3.705	3.9	4.095	5	90	2400	10	1	128
1N5991B	4.085	4.3	4.515	5	88	2500	5	1	116
1N5992B	4.465	4.7	4.935	5	70	2200	3	1.5	106
1N5993B	4.845	5.1	5.355	5	50	2050	2	2	98
1N5994B	5.32	5.6	5.88	5	25	1800	2	3	89
1N5995B	5.89	6.2	6.51	5	10	1300	1	4	81
1N5996B	6.46	6.8	7.14	5	8	750	1	5.2	74
1N5997B	7.125	7.5	7.875	5	7	600	0.5	6	67
1N5998B	7.79	8.2	8.61	5	7	600	0.5	6.5	61
1N5999B	8.645	9.1	9.555	5	10	600	0.1	7	55

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V <sub>Z</sub> (V) @ I <sub>Z</sub> (I		Note 1)	-	Zener Impedance		leakage Current			
Device	Min.	Тур.	Max.	Test Current I <sub>Z</sub> (mA)	Z <sub>Z</sub> @ I <sub>Z</sub> (Ω)	Z <sub>ZK</sub> @ I <sub>ZK</sub> = 250μA (Ω)	I <sub>R</sub> (mA)	V <sub>R</sub> (V)	I <sub>ZM</sub> (mA) (Note 2)
1N6000B	9.5	10	10.5	5	15	600	0.1	8	50
1N6001B	10.45	11	11.55	5	18	600	0.1	8.4	45
1N6002B	11.4	12	12.6	5	22	600	0.1	9.1	42
1N6003B	12.35	13	13.65	5	25	600	0.1	9.9	38
1N6004B	14.25	15	15.75	5	32	600	0.1	11	33
1N6005B	15.2	16	16.8	5	36	600	0.1	12	31
1N6006B	17.1	18	18.9	5	42	600	0.1	14	28
1N6007B	19	20	21	5	48	600	0.1	15	25
1N6008B	20.9	22	23.1	5	55	600	0.1	17	23
1N6009B	22.8	24	25.2	5	62	600	0.1	18	21
1N6010B	25.65	27	28.35	5	70	600	0.1	21	19
1N6011B	28.5	30	31.5	5	78	600	0.1	23	17
1N6012B	31.35	33	34.65	5	88	700	0.1	25	15
1N6013B	34.2	36	37.8	5	95	700	0.1	27	14
1N6014B	37.05	39	40.95	2	130	800	0.1	30	13
1N6015B	40.85	43	45.15	2	150	900	0.1	33	12
1N6016B	44.65	47	49.35	2	170	1000	0.1	36	11
1N6017B	48.45	51	53.55	2	180	1300	0.1	39	9.8
1N6018B	53.2	56	58.8	2	200	1400	0.1	43	8.9
1N6019B	58.9	62	65.1	2	225	1400	0.1	47	8
1N6020B	64.6	68	71.4	2	240	1600	0.1	52	7.4
1N6021B	71.25	75	78.75	2	265	1700	0.1	56	6.7
1N6022B	77.9	82	86.1	2	280	2000	0.1	62	6.1
1N6023B	86.45	91	95.55	2	300	2300	0.1	69	5.5
1N6024B	95	100	105	1	500	2600	0.1	76	5
1N6025B	104.5	110	115.5	1	650	3000	0.1	84	4.5

## Notes:

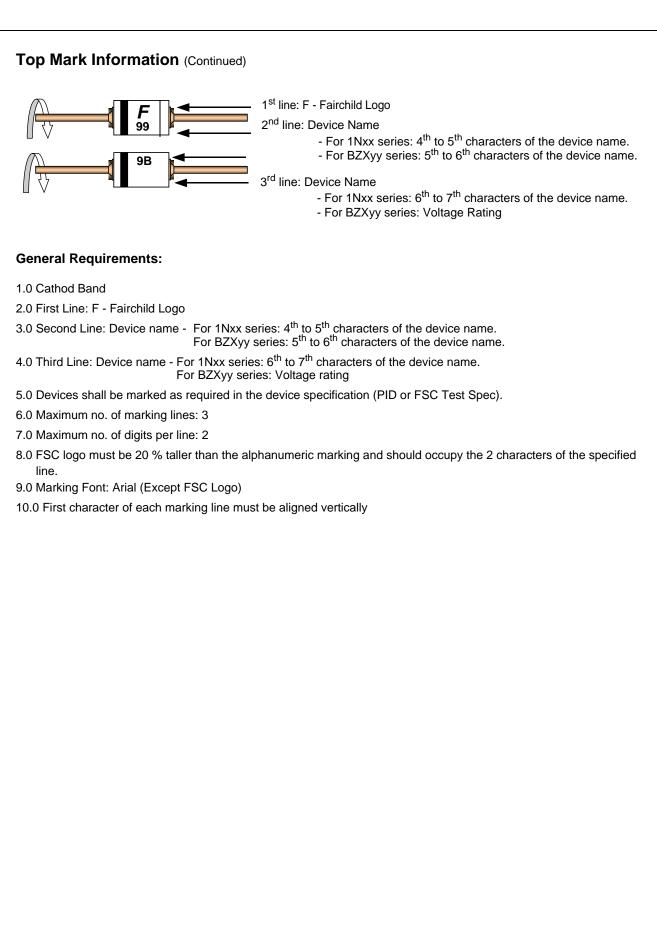
1. Zener Voltage (V<sub>Z</sub>)

The zener voltage is measured with the device junction in the themal equilibrium at the lead temperature  $(T_L)$  at 30°C ± 1°C and 3/8" lead length.

2. Maximum Zener Current Ratings (I<sub>ZM</sub>)

The maximum current handling capability on a worst case basis is limited by the actual zener voltage at the operation point and the power derating curve.

1N5985B LOGO 98   1N5986B LOGO 98   1N5987B LOGO 98   1N5987B LOGO 98   1N5988B LOGO 98   1N5990B LOGO 99   1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N59998 LOGO 99   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6007B LOGO <t< th=""><th>5B</th><th>Line 2</th><th>Line 1</th><th>Device</th></t<>	5B	Line 2	Line 1	Device
1N5987B LOGO 98   1N5988B LOGO 98   1N5989B LOGO 98   1N5990B LOGO 99   1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 01   1N6018 LOGO <td< td=""><td></td><td>98</td><td>LOGO</td><td>1N5985B</td></td<>		98	LOGO	1N5985B
1N5988B LOGO 98   1N5990B LOGO 98   1N5990B LOGO 99   1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 00   1N6008 LOGO 00   1N6008 LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6018 LOGO 01   1N6018 LOGO 01	6B	98	LOGO	1N5986B
1N5989B LOGO 98   1N5990B LOGO 99   1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N6008 LOGO 00   1N6008 LOGO 00   1N6008 LOGO 00   1N6007B LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01<	7B	98	LOGO	1N5987B
IN5990B LOGO 99   1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N600B LOGO 00   1N600B LOGO 01   1N601B LOGO 01	8B	98	LOGO	1N5988B
1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01	9B	98	LOGO	1N5989B
1N5991B LOGO 99   1N5992B LOGO 99   1N5993B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01	0B	99	LOGO	1N5990B
1N5992B LOGO 99   1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5998B LOGO 99   1N600B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6010B LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6014B LOGO 01	1B	99	LOGO	1N5991B
1N5993B LOGO 99   1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6008 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018B LOGO 01	2B			
1N5994B LOGO 99   1N5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5997B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6018 LOGO 01   1N6018 LOGO 01   1N6013B LOGO 01   1N6013B LOGO 01   1N6015B LOGO 01   1N6015B LOGO	3B			
IN5995B LOGO 99   1N5996B LOGO 99   1N5997B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6008B LOGO 00   1N6007B LOGO 00   1N6018B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO <t< td=""><td>4B</td><td></td><td></td><td></td></t<>	4B			
1N5996B LOGO 99   1N5997B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 0	5B			
1N5997B LOGO 99   1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6018 LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 0	6B	99	LOGO	
1N5998B LOGO 99   1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6007B LOGO 00   1N6018 LOGO 00   1N6018 LOGO 01	7B			
1N5999B LOGO 99   1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6018B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO <t< td=""><td>8B</td><td></td><td></td><td></td></t<>	8B			
1N6000B LOGO 00   1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6004B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6008B LOGO 01   1N6018B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO <t< td=""><td>9B</td><td></td><td></td><td></td></t<>	9B			
1N6001B LOGO 00   1N6002B LOGO 00   1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6008B LOGO 00   1N6008B LOGO 00   1N6008B LOGO 00   1N6018 LOGO 01   1N6018 LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6017B LOGO 01   1N6017B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01	0B			
1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6018B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	1B			
1N6003B LOGO 00   1N6004B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6018B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	2B	00	LOGO	1N6002B
1N6004B LOGO 00   1N6005B LOGO 00   1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	3B			
1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	4B			
1N6006B LOGO 00   1N6007B LOGO 00   1N6008B LOGO 00   1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	5B	00	LOGO	1N6005B
1N6007B LOGO 00   1N6008B LOGO 00   1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6017B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	6B			
1N6008B LOGO 00   1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	7B			
1N6009B LOGO 00   1N6010B LOGO 01   1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	8B			
1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01	9B			
1N6011B LOGO 01   1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01	0B	01	LOGO	1N6010B
1N6012B LOGO 01   1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	1B			
1N6013B LOGO 01   1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	2B	01		
1N6014B LOGO 01   1N6015B LOGO 01   1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	3B			
1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	4B			
1N6016B LOGO 01   1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	5B	01		
1N6017B LOGO 01   1N6018B LOGO 01   1N6019B LOGO 01	6B			1N6016B
1N6018B LOGO 01   1N6019B LOGO 01	7B			
1N6019B LOGO 01	8B			
	9B			
	0B	02	LOGO	1N6020B
1N6021B LOGO 02	1B			1N6021B
1N6022B LOGO 02	2B	_		
1N6023B LOGO 02	3B			
1N6024B LOGO 02	4B			





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