1N5985B - 1N6025B — Zener Diodes



1N5985B - 1N6025B Zener Diodes



Absolute Maximum Ratings * T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	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 _Z (V)	@Iz (N	lote 1)	Test Current	Zener Impedance		leakage Current		1 (mA)
Device	Min.	Тур.	Max.	I _Z (mA)	Z _Z @ I _Z (Ω)	Z _{ZK} @ I _{ZK} = 250μA (Ω)	I _R (mA)	V _R (V)	I _{ZM} (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

March 2010

V _Z (V) @ I _Z (I		Note 1)	-	Zener Impedance		leakage Current			
Device	Min.	Тур.	Max.	Test Current I _Z (mA)	Z _Z @ I _Z (Ω)	Z _{ZK} @ I _{ZK} = 250μA (Ω)	I _R (mA)	V _R (V)	I _{ZM} (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:

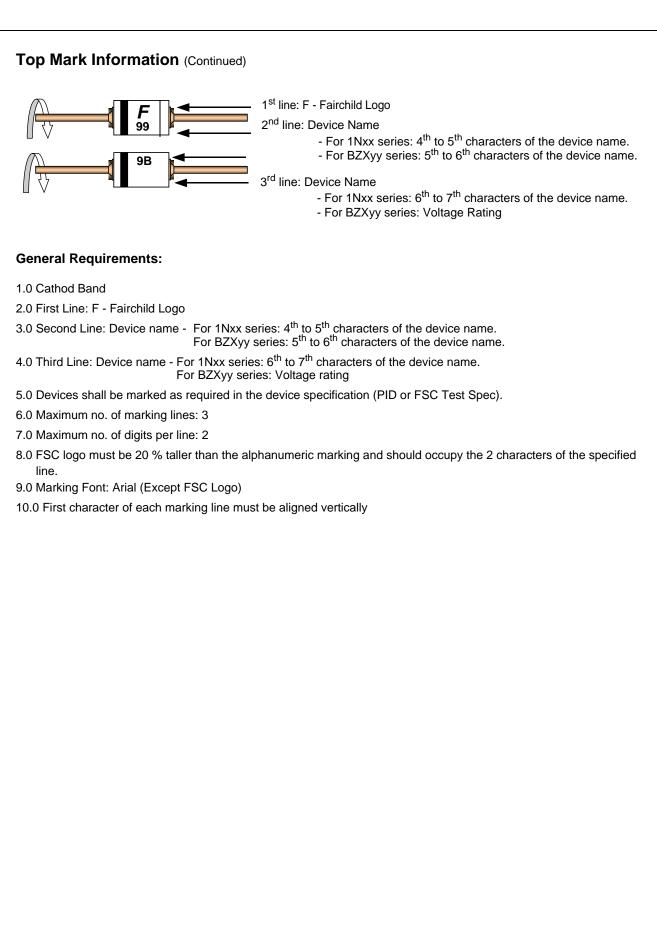
1. Zener Voltage (V_Z)

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_{ZM})

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.

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1N6022B LOGO 02	2B	_		
1N6023B LOGO 02	3B			
1N6024B LOGO 02	4B			





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Fairchild Semiconductor: <u>1N5986B_T50R</u> <u>1N5986B_T50A</u> <u>1N5986B</u>