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℃	4.0	mW/°C
$T_{J_{I}}T_{STG}$	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 (Note 1) Zener Impedance		e 1) Test Current		leakage Current		Ι (m Δ)	
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

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V _Z (V) @		@ Ł (N	lote 1)	To al Original	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:

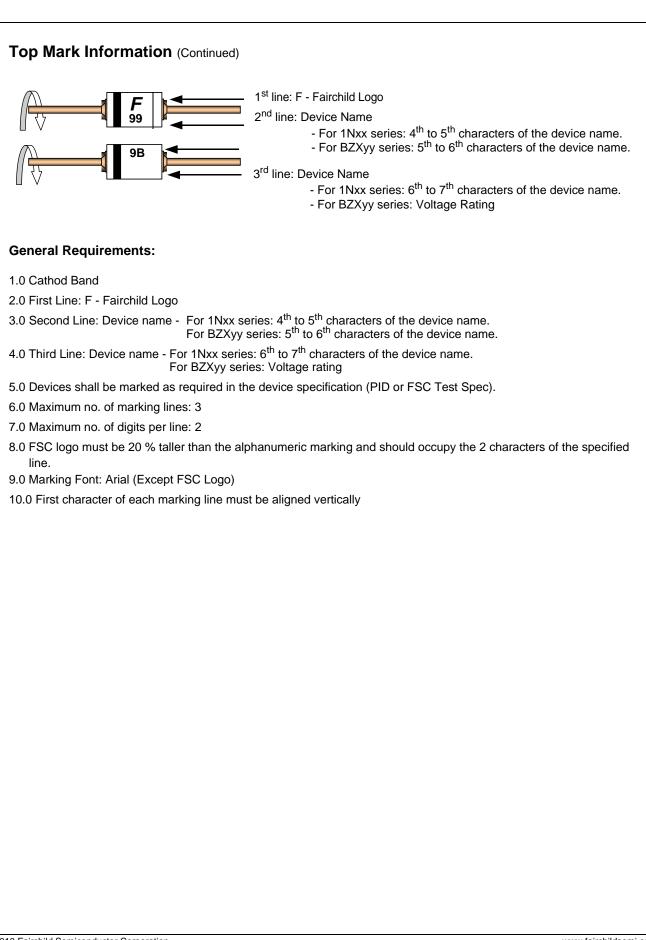
1. Zener Voltage (V_Z)

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.

Device	Line 1	Line 2	Line 3
1N5985B	LOGO	98	5B
1N5986B	LOGO	98	6B
1N5987B	LOGO	98	7B
1N5988B	LOGO	98	8B
1N5989B	LOGO	98	9B
1N5990B	LOGO	99	0B
1N5991B	LOGO	99	1B
1N5992B	LOGO	99	2B
1N5993B	LOGO	99	3B
1N5994B	LOGO	99	4B
1N5995B	LOGO	99	5B
1N5996B	LOGO	99	6B
1N5997B	LOGO	99	7B
1N5998B	LOGO	99	8B
1N5999B	LOGO	99	9B
1N6000B	LOGO	00	0B
1N6001B	LOGO	00	1B
1N6002B	LOGO	00	2B
1N6003B	LOGO	00	3B
1N6004B	LOGO	00	4B
1N6005B	LOGO	00	5B
1N6006B	LOGO	00	6B
1N6007B	LOGO	00	7B
1N6008B	LOGO	00	8B
1N6009B	LOGO	00	9B
1N6010B	LOGO	01	0B
1N6011B	LOGO	01	1B
1N6012B	LOGO	01	2B
1N6013B	LOGO	01	3B
1N6014B	LOGO	01	4B
1N6015B	LOGO	01	5B
1N6016B	LOGO	01	6B
1N6017B	LOGO	01	7B
1N6018B	LOGO	01	8B
1N6019B	LOGO	01	9B
1N6020B	LOGO	02	0B
1N6021B	LOGO	02	1B
1N6022B	LOGO	02	2B
1N6023B	LOGO	02	3B
1N6024B	LOGO	02	4B
1N6025B	LOGO	02	5B





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