

New Jersey Semi-Conductor Products, Inc.

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1N3016B thru 1N3051B

FEATURES

- ZENER VOLTAGE RANGE: 6.8V TO 200V

MAXIMUM RATINGS

Junction and Storage Temperatures: -65°C to $+175^{\circ}\text{C}$

DC Power Dissipation: 1 Watt

Derating: 12.5 mW/ $^{\circ}\text{C}$ above T_L 95 $^{\circ}\text{C}$

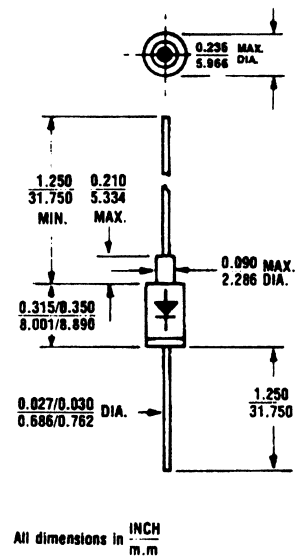
Forward Voltage @ 200 mA: 1.5 Volts

*ELECTRICAL CHARACTERISTICS @ 25 $^{\circ}\text{C}$

JEDEC TYPE NUMBER (Note 1)	NOMINAL ZENER VOLTAGE V_Z @ I_{ZT} (Note 2)	ZENER TEST CURRENT I_{ZT}	MAXIMUM ZENER IMPEDANCE (Note 3)			MAXIMUM ZENER CURRENT I_{ZM} (Note 4)	MAXIMUM REVERSE LEAKAGE CURRENT† I_R @ V_R		TYPICAL TEMP. COEFF. OF ZENER VOLTAGE C_{VZ}
			Z_{11} @ I_{Z1}		Z_{12} @ I_{Z2}		μA	Volts	
			OHMS	mA					
1N3016B	6.8	37	3.5	700	1.0	140	150	5.2	.040
1N3017B	7.5	34	4.0	700	.5	125	100	5.7	.045
1N3018B	8.2	31	4.5	700	.5	115	50	6.2	.048
1N3019B	9.1	28	5	700	.5	105	25	6.9	.050
1N3020B	10	25	7	700	.25	95	25	7.6	.055
1N3021B	11	23	8	700	.25	85	10	8.4	.060
1N3022B	12	21	9	700	.25	80	10	9.1	.065
1N3023B	13	19	10	700	.25	74	10	9.9	.065
1N3024B	15	17	14	700	.25	63	10	11.4	.070
1N3025B	16	15.5	16	700	.25	60	10	12.2	.070
1N3026B	18	14	20	750	.25	52	10	13.7	.075
1N3027B	20	12.5	22	750	.25	47	10	15.2	.075
1N3028B	22	11.5	23	750	.25	43	10	16.7	.080
1N3029B	24	10.5	25	750	.25	40	10	18.2	.080
1N3030B	27	9.5	35	750	.25	34	10	20.6	.085
1N3031B	30	8.5	40	1000	.25	31	10	22.8	.085
1N3032B	33	7.5	45	1000	.25	28	10	25.1	.085
1N3033B	36	7.0	50	1000	.25	26	10	27.4	.085
1N3034B	39	6.5	60	1000	.25	23	10	29.7	.090
1N3035B	43	6.0	70	1500	.25	21	10	32.7	.090
1N3036B	47	5.5	80	1500	.25	19	10	35.8	.090
1N3037B	51	5.0	95	1500	.25	18	10	38.8	.090
1N3038B	56	4.5	110	2000	.25	17	10	42.6	.090
1N3039B	62	4.0	125	2000	.25	15	10	47.1	.090
1N3040B	68	3.7	150	2000	.25	14	10	51.7	.090
1N3041B	75	3.3	175	2000	.25	12	10	56.0	.090
1N3042B	82	3.0	200	3000	.25	11	10	62.2	.090
1N3043B	91	2.8	250	3000	.25	10	10	69.2	.090
1N3044B	100	2.5	350	3000	.25	9.0	10	76.0	.090
1N3045B	110	2.3	450	4000	.25	8.3	10	83.6	.095
1N3046B	120	2.0	550	4500	.25	8.0	10	91.2	.095
1N3047B	130	1.9	700	5000	.25	6.9	10	98.8	.095
1N3048B	150	1.7	1000	6000	.25	5.7	10	114.0	.095
1N3049B	160	1.6	1100	6500	.25	5.4	10	121.6	.095
1N3050B	180	1.4	1200	7000	.25	4.9	10	136.8	.095
1N3051B	200	1.2	1500	8000	.25	4.6	10	152.0	.100

NO SUFFIX 20%
A SUFFIX 10%
B SUFFIX 5%

SILICON 1 WATT ZENER DIODES



MECHANICAL CHARACTERISTICS

CASE: DO-13 (DO-202AA),
welded, hermetically sealed metal

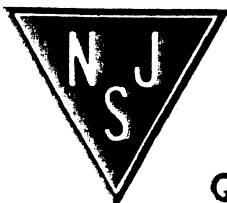
FINISH: All external surfaces are
corrosion resistant and leads
solderable.

THERMAL RESISTANCE: 50 $^{\circ}\text{C}/\text{W}$
(Typical) junction to lead at 0.375-
inches from body and 30 $^{\circ}\text{C}/\text{W}$ at
junction to case.

POLARITY: Cathode connected case.

WEIGHT: 1.4 grams.

MOUNTING POSITION: Any



Quality Semi-Conductors