New Jersey Semi-Conductor Products, Inc.

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Standard tolerances are 5% 20%, 10%, 2% and 1% are available

MECHANICAL

400 mW low voltage avalanche low noise silicon zener diodes

FEATURES

- · Controlled avalanche
- Voltages fropm 4.3 to 10 V
- Low reverse leakage
- · Low noise
- · Hermetically sealed glass package
- APD can select any voltage in tolerances 1%, 2%, 5% and 10% at your application's test current.

MAXIMUM RATINGS

- Junction Temperature -85°C to + 175°C
- Storage Temperature -65°C to + 200°C
- DC Power Dissipation: 400mW @ T₁ = 50°C
 - Derate above 50°C: 2.67mW/°C

ELECTRICAL CHARACTERISTICS @ 25°C

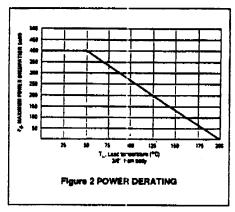
Туре (1)	Nominal Zener Voltege (*) 1 ₂ Vdc	Meximum Impedance (2)		Maximum Reverse Laskage		Maximum Noise Density	Maximum Regulation	
		Z,	L _z	i, 6V,		⊕ 250 µA (J)	ΔV ₂	4
				μА	Vdc	₽V√Hz	Vde	mA
1N6062B	4.3	16	20	2.0	1.5	1	0.75	2.0
1N6083B	4.7	10	10	2.0	2.0	1	0.50	1.0
1N6084B	5.1	10	5	2.0	3.0	1	0.30	0.25
1N6065B	5.6	40	1	2.0	4.5	1	0.10	0.05
1N6066B	6.2	45	1	0.5	5.6	1	0.10	0.01
1N6067B	6.8	50	1	0.05	6.2	1	0.10	9.01
1N6086B	7.5	50	1 1	0.01	6.8	1	0.10	0.01
1N6089B	8.2	60	1	0.01	7.5	1	0.10	0.01
1N6090B	9.1	60	1	0.01	8.2	2	0.10	0.01
1N60918	10.0	60	1	0.01	9.1	2	0.10	0.01

This series also available in DO-7 package. Consult factory for availability.

Note 1 The JEDEC type numbers shown with a B suffix have a $\pm 5\%$ tolerance. No suffix indicates a $\pm 20\%$ tolerance, Suffix A denotes a $\pm 10\%$ tolerance, suffix C denotes a $\pm 2\%$ tolerance and suffix D denotes $\pm 1\%$ tolerance.

Note 2 The zener impedance is derived from the 60 Hz ac voltage, which results when an ac current having an rms value equal to 10% of the DC zener current $\langle I_{zz} \rangle$ is superimposed on I_{zz} .

Note 3 Measured from 1 KHz to 3 KHz in noise density measurement circuit shown on the following page.



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Quality Semi-Conductors