Vishay Semiconductors



Small Signal Zener Diodes



DESIGN SUPPORT TOOLS



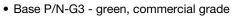
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PRIMARY CHARACTERISTICS						
PARAMETER	VALUE	UNIT				
V _Z range nom.	2.0 to 36	V				
Test current IZT	5	mA				
V _Z specification	Pulse current					
Circuit configuration	Single					

FEATURES

- Silicon planar Zener diodes
- · Low Zener impedance and low leakage current
- Popular in Asian designs
- · Compact surface mount device
- Ideal for automated mounting
- AEC-Q101 qualified available
- ESD capability according to AEC-Q101: human body model > 8 kV machine model > 800 V



- Base P/N-HG3 green, AEC-Q101 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ORDERING INFORMATION							
DEVICE NAME	ORDERING CODE	TAPED UNITS PER REEL	MINIMUM ORDER QUANTITY				
GDZ-G-series	GDZ2V0B-G3-08 to GDZ36B-G3-08	3000 (8 mm tape on 7" reel)	15 000/box				
	GDZ2V0B-G3-18 to GDZ36B-G3-18	10 000 (8 mm tape on 13" reel)	10 000/box				
	GDZ2V0B-HG3-08 to GDZ36B-HG3-08	3000 (8 mm tape on 7" reel)	15 000/box				
	GDZ2V0B-HG3-18 to GDZ36B-HG3-18	10 000 (8 mm tape on 13" reel)	10 000/box				

PACKAGE								
PACKAGE NAME WEIGHT		MOLDING COMPOUND FLAMMABILITY RATING	MOISTURE SENSITIVITY LEVEL	SOLDERING CONDITIONS				
SOD-323	4 mg	UL 94 V-0	MSL level 1 (according J-STD-020)	260 °C/10 s at terminals				

ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)							
PARAMETER	TEST CONDITION	N SYMBOL VA		UNIT			
Power dissipation		P _{tot}	200	mW			
Junction temperature		Tj	150	°C			
Storage temperature range		T _{stg}	-55 to +150	°C			
Operating temperature range		T _{op}	-55 to +150	°C			

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ELECTRICAL CHARACTERISTICS ($T_{amb} = 25 \text{ °C}$, unless otherwise specified)									
		ZENER VOLTAGE RANGE		TEST CURRENT		REVERSE CURRENT		DYNAMIC RESISTANCE	
PART NUMBER	MARKING CODE	V _Z at I _{ZT1} V		I _{ZT1}	I _{ZT1} I _{ZT2}		it V _R	Z _Z at I _{ZT1}	Z _{ZK} at I _{ZT2}
	CODE			r	mA		V	Ω	
		MIN.	MAX.			MAX.		MAX.	MAX.
GDZ2V0B-G	05	2.02	2.2	5	0.5	120	0.5	100	1000
GDZ2V2B-G	15	2.22	2.41	5	0.5	120	0.7	100	1000
GDZ2V4B-G	25	2.43	2.63	5	0.5	120	1	100	1000
GDZ2V7B-G	35	2.69	2.91	5	0.5	100	1	110	1000
GDZ3V0B-G	45	3.01	3.22	5	0.5	50	1	120	1000
GDZ3V3B-G	55	3.32	3.53	5	0.5	20	1	120	1000
GDZ3V6B-G	65	3.6	3.845	5	1	10	1	100	1000
GDZ3V9B-G	75	3.89	4.16	5	1	5	1	100	1000
GDZ4V3B-G	85	4.17	4.43	5	1	5	1	100	1000
GDZ4V7B-G	95	4.55	4.75	5	0.5	2	1	100	800
GDZ5V1B-G	U1	4.98	5.2	5	0.5	2	1	80	500
GDZ5V6B-G	U2	5.49	5.73	5	0.5	1	2.5	60	200
GDZ6V2B-G	U3	6.06	6.33	5	0.5	1	3	60	100
GDZ6V8B-G	U4	6.65	6.93	5	0.5	0.5	3.5	40	60
GDZ7V5B-G	U5	7.28	7.6	5	0.5	0.5	4	30	60
GDZ8V2B-G	U6	8.02	8.36	5	0.5	0.5	5	30	60
GDZ9V1B-G	U7	8.85	9.23	5	0.5	0.5	6	30	60
GDZ10B-G	U8	9.77	10.21	5	0.5	0.1	7	30	60
GDZ11B-G	U9	10.76	11.22	5	0.5	0.1	8	30	60
GDZ12B-G	UA	11.74	12.24	5	0.5	0.1	9	30	80
GDZ13B-G	UB	12.91	13.49	5	0.5	0.1	10	37	80
GDZ15B-G	UC	14.34	14.98	5	0.5	0.1	11	42	80
GDZ16B-G	UD	15.85	16.51	5	0.5	0.1	12	50	80
GDZ18B-G	UE	17.56	18.35	5	0.5	0.1	13	65	80
GDZ20B-G	UH	19.52	20.39	5	0.5	0.1	15	85	100
GDZ22B-G	UK	21.54	22.47	5	0.5	0.1	17	100	100
GDZ24B-G	UL	23.72	24.78	5	0.5	0.1	19	120	120
GDZ27B-G	UM	26.19	27.53	5	0.5	0.1	21	150	150
GDZ30B-G	UN	29.19	30.69	5	0.5	0.1	23	200	200
GDZ33B-G	UP	32.15	33.79	5	0.5	0.1	25	250	250
GDZ36B-G	UT	35.07	36.87	5	0.5	0.1	27	300	300

Notes

• The Zener voltage V_Z is measured 40 ms after power is supplied

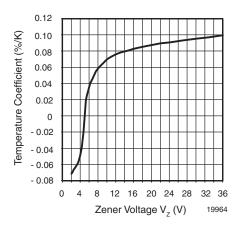
• The operating resistance (Z_Z, Z_{ZK}) are measured by superimposing a 1 kHz alternating current on the regulated current (I_z).

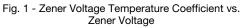
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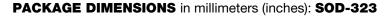


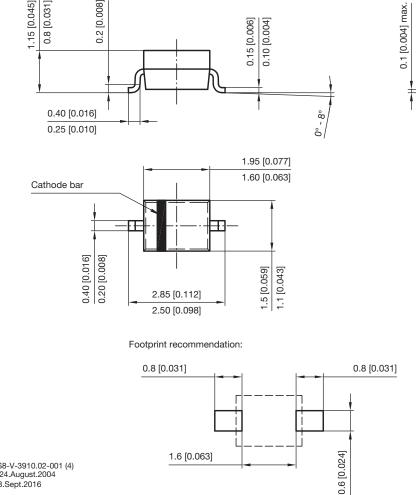
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TYPICAL CHARACTERISTICS (Tamb = 25 °C, unless otherwise specified)









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