

# 1N49xx

## VOIDLESS-HERMETICALLY-SEALED 5 WATT GLASS ZENER DIODES



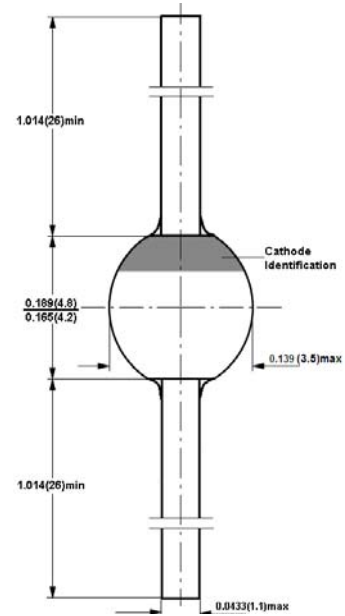
### Features:

- Popular JEDEC registered series
- Voidless hermetically sealed glass package
- Extremely robust construction
- Triple-layer passivation

### MECHANICAL DATA:

Case: SOD-64E sintered glass case  
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

### G4-2



Dimensions in inches and (millimeters)

## ELECTRICAL CHARACTERISTICS @25°C

Type*	Nominal Zener Voltage Vz@Izr	Test Current Izr	Maximun Zener Impedance		Voltage Regulation (Note 1) ΔVz	Maximum Revers Leakage Current Voltage		Maximum Temperature Coeff. α vz@ Izr	Maximum Continuous Current IzM	Surge Current IzSM
			Zz@Izr	Zzk*@Izk=1mA		IR	VR			
			Ohms	Ohms		uA	Volts			
1N4958	10	125	2.0	125	0.8	25	7.6	.07	475	20
1N4959	11	125	2.5	130	0.8	10	8.4	.07	430	19
1N4960	12	100	2.5	140	0.8	10	9.1	.07	395	18
1N4961	13	100	3.0	145	0.9	10	9.9	.08	365	16
1N4962	15	75	3.5	150	1.0	5	11.4	.08	315	12
1N4965	20	65	4.5	165	1.5	2	15.2	.085	237	8.0
1N4967	24	50	5.0	175	2.0	2	18.2	.090	198	6.5
1N4970	33	40	10	200	2.8	2	25.1	.095	144	5.0
1N4971	36	30	11	220	3.0	2	27.4	.095	132	4.5

## ELECTRICAL CHARACTERISTICS @25°C

Type*	Nominal Zener Voltage V <sub>Z</sub> @I <sub>ZT</sub>	Test Current I <sub>ZT</sub>	Maximum Zener Impedance		Voltage Regulation (Note 1) ΔV <sub>Z</sub>	Maximum Reverse Leakage Current Voltage		Maximum Temperature Coeff. α v <sub>Z</sub> @ I <sub>ZT</sub>	Maximum Continuous Current I <sub>ZM</sub>	Surge Current I <sub>ZSM</sub>
			Z <sub>Z</sub> @ I <sub>ZT</sub>	Z <sub>Zk</sub> *@ I <sub>Zk</sub> =1mA		I <sub>R</sub>	V <sub>R</sub>			
	Volts	mA	Ohms	Ohms	Volts	uA	Volts	%/° C	mA	Amps
1N4972	39	30	14	230	3.0	2	29.7	.095	122	4.0
1N4973	43	30	20	240	3.3	2	32.7	.095	110	3.5
1N4974	47	25	25	250	3.5	2	35.8	.095	100	3.2
1N4976	56	20	35	320	4.4	2	42.6	.095	84	2.8
1N4979	75	20	55	620	6.0	2	56.0	.100	63.0	2.0
1N4981	91	15	90	760	7.5	2	69.2	.100	52.5	1.6
1N4982	100	12	110	800	8.0	2	76.0	.100	47.5	1.4
1N4986	150	8	330	1500	13	2	114.0	.105	31.6	0.75
1N4989	200	5	500	1850	18	2	152	.110	23.6	0.50
1N4990	220	5	550	2000	19	2	167	.115	21.6	0.50
1N4991	240	5	650	2050	22	2	182	.115	19.8	0.40
1N4993	300	4	950	2150	28	2	228	.120	15.6	0.30
1N4994	330	4	1175	2200	32	2	251	.120	14.4	0.25
1N4995	360	3	1400	2300	35	2	274	.120	13.0	0.22
1N4996	390	3	1800	2500	40	2	297	.120	12.0	0.20

▲ VF:1.5V (MAX), @IF=1.0A;

\* Standard voltage tolerances are plus/minus 5% with no suffix.

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<https://www.voltaristech.com/>