

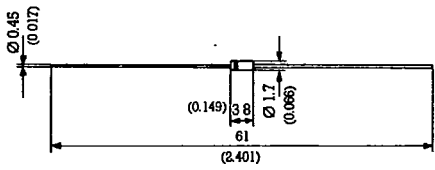
FAGOR 
3459325 FAGOR ELECTRONICS

1N957 1N973

98D 00155 D

0.4 W Zener Diodes

T-11-09

<p>Dimensions in mm. (inches) DO-35 (Glass)</p>  <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 2 mm. 2. Max. solder temperature, 300°C. 3. Max. soldering time, 3 sec. 4. Do not bend lead at a point closer than 1,5 mm. to the body. 	<p>Voltage 6.8 to 33 V.</p> <p>Power 0.4 W</p> <p>Standard Voltage Tolerance is $\pm 20\%$ Add Suffix "A" for $\pm 10\%$ Tolerance and Suffix "B" for $\pm 5\%$</p> <ul style="list-style-type: none"> • Low cost • DO-35 Glass case • Terminals: Axial Leads • Polarity: Color band denotes cathode
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Maximum Ratings, according to IEC publication No. 134

P_{tot}	Power dissipation at $T_{amb} = 25^\circ\text{C}$	400 mW
P_{ZSM}	Non repetitive peak zener dissipation ($T_j = 25^\circ\text{C}$, $t = 1\text{ ms}$)	12 W
T_j	Max. operating temperature	175°C
T_{stg}	Storage temperature range	- 50°C to + 175°C

Electrical Characteristics at $T_{amb} = 25^\circ\text{C}$

V_F	Max. forward voltage drop at $I_F = 200\text{ mA}$	1,2 V
R_{thj-a}	Max. thermal resistance at: 8 mm. lead length	0,30°C/mW



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98D 00156 D

Type	Nominal Zener Voltage V_z at I_{zT}	Test Current I_{zT}	Maximum Zener Impedance			Typical Temperature Coefficient	Maximum Reverse Leakage Current			Maximum Regulator Current I_{zR}
	(V)	(mA)	Z_{zT} at I_{zT}	Z_{zK} at I_{zK}	I_{zK}		I_r	Test-Voltage Suffix A	Test-Voltage Suffix B	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(%/°C)	(μ A)	(V)	(V)	(mA)
1N957	6.8	18.5	4.5	700	1.0	+0.050	150	4.9	5.2	47
1N958	7.5	16.5	5.5	700	0.5	+0.059	75	5.4	5.7	42
1N959	8.2	16	6.5	700	0.5	+0.062	50	5.9	6.2	38
1N960	9.1	14	7.5	700	0.5	+0.068	25	6.6	6.9	35
1N961	10	12.5	8.5	700	0.25	+0.075	10	7.2	7.6	32
1N962	11	11.5	9.5	700	0.25	+0.076	5	8.0	8.4	28
1N963	12	10.5	11.5	700	0.25	+0.077	5	8.6	9.1	26
1N964	13	9.5	13	700	0.25	+0.079	5	9.4	9.9	24
1N965	15	8.5	16	700	0.25	+0.082	5	10.8	11.4	21
1N966	16	7.8	17	700	0.25	+0.083	5	11.5	12.2	19
1N967	18	7.0	21	750	0.25	+0.085	5	13.0	13.7	17
1N968	20	6.2	25	750	0.25	+0.086	5	14.4	15.2	15
1N969	22	5.6	29	750	0.25	+0.087	5	15.8	16.7	14
1N970	24	5.2	33	750	0.25	+0.088	5	17.3	18.2	13
1N971	27	4.6	41	750	0.25	+0.090	5	19.4	20.6	11
1N972	30	4.2	49	1000	0.25	+0.091	5	21.6	22.8	10
1N973	33	3.8	58	1000	0.25	+0.092	5	23.8	25.1	9.2



3459325 FAGOR ELECTRONICS
 Characteristic Curves

1N957

98D 00157 D

T-11-09

