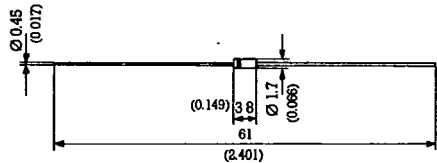


**0.4 W Zener Diodes**

T-11-09

<p>Dimensions in mm. (inches)</p> 	<p>DO-35 (Glass)</p>	<p>Voltage 6.8 to 33 V.</p> <p>Power 0.4 W</p>
<p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 2 mm.</li> <li>2. Max. solder temperature, 300°C.</li> <li>3. Max. soldering time, 3 sec.</li> <li>4. Do not bend lead at a point closer than 1,5 mm. to the body.</li> </ol>		<p>Standard Voltage Tolerance is <math>\pm 20\%</math>                  Add Suffix "A" for <math>\pm 10\%</math> Tolerance and Suffix "B" for <math>\pm 5\%</math></p> <ul style="list-style-type: none"> <li>• Low cost</li> <li>• DO-35 Glass case</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>

**Maximum Ratings, according to IEC publication No. 134**

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

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

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



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1N957

3459325 FAGOR ELECTRONICS

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)	( $\Omega$ )	( $\Omega$ )	(mA)	(%/°C)	( $\mu$ 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

