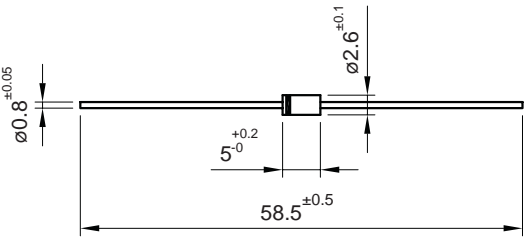


## 1.5 W Zener Diodes

<p><b>Dimensions in mm.</b></p> <p><b>DO-41</b> (Plastic)</p>  <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 350 °C.</li> <li>3. Max. soldering time, 3.5 sec.</li> <li>4. Do not bend lead at a point closer than 2 mm. to the body.</li> </ol>	<p><b>Voltage</b> 10 to 220 V</p> <p><b>Power</b> 1.5 W</p> <ul style="list-style-type: none"> <li>• Diffused junction</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>
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## Maximum Ratings, According to IEC Publication No. 134

$P_{tot}$	Power dissipation at $T_{amb} = 60\text{ °C}$	1.5 W
$P_{ZSM}$	Non repetitive peak zener dissipation ( $t = 10\text{ms.}$ )	40 W
$T_j$	Operating temperature range	- 55 to + 175 °C
$T_{stg}$	Storage temperature range	- 55 to + 175 °C

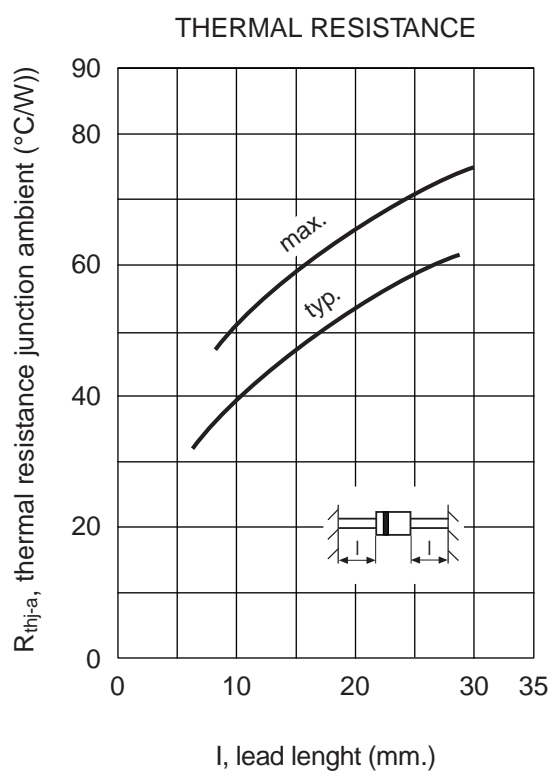
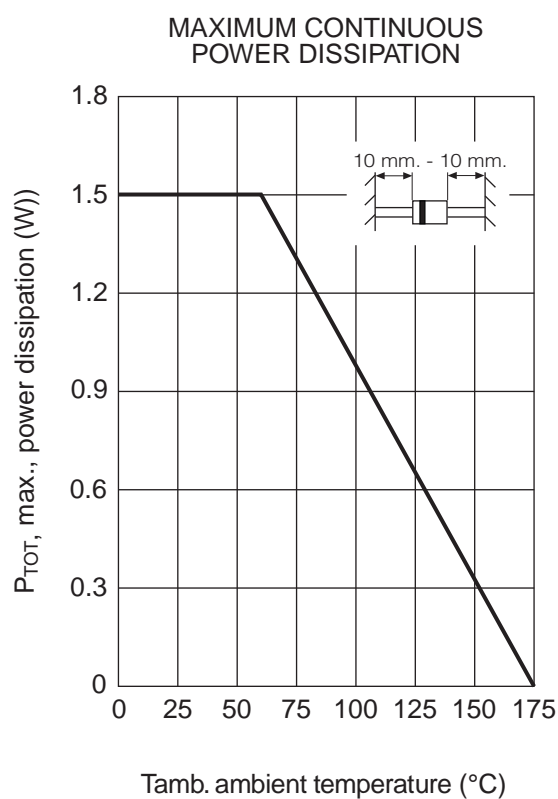
## Electrical Characteristics at $T_{amb} = 25\text{ °C}$

$V_F$	Max. forward voltage drop at $I_F = 1.0\text{ A}$	1.1 V
$R_{thj-a}$	Max. thermal resistance at 10 mm. lead length	50 °C/W

## 1.3 W Glass Passivated Zener Diodes

Type	Zener Voltage Range $V_Z$ at $I_{ZT}$	Maximum Zener Impedance $Z_{ZT}$ at $I_{ZT}$	Typical Temperature Coefficient at $I_{ZT}$	Test Current $I_{ZT}$	Min. Reverse Voltage at $I_R = 1 \mu A$ $V_R$
	(V)	( $\Omega$ )	(% / $^{\circ}C$ )	(mA)	(V)
BZY97C10 GP	9.4 - 10.6	4	+ 0.070	50	5.0
BZY97C11 GP	10.4 - 11.6	7	+ 0.075	50	5.0
BZY97C12 GP	11.4 - 12.7	7	+ 0.075	50	7.0
BZY97C13 GP	12.4 - 14.1	10	+ 0.075	50	7.0
BZY97C15 GP	13.8 - 15.8	10	+ 0.075	50	10
BZY97C16 GP	15.3 - 17.1	15	+ 0.085	25	10
BZY97C18 GP	16.8 - 19.1	15	+ 0.085	25	10
BZY97C20 GP	18.8 - 21.2	15	+ 0.085	25	10
BZY97C22 GP	20.8 - 23.3	15	+ 0.085	25	12
BZY97C24 GP	22.8 - 25.6	15	+ 0.085	25	12
BZY97C27 GP	25.1 - 28.9	15	+ 0.085	25	14
BZY97C30 GP	28 - 32	15	+ 0.085	25	14
BZY97C33 GP	31 - 35	15	+ 0.085	25	17
BZY97C36 GP	34 - 38	40	+ 0.085	10	17
BZY97C39 GP	37 - 41	40	+ 0.085	10	20
BZY97C43 GP	40 - 46	45	+ 0.095	10	20
BZY97C47 GP	44 - 50	45	+ 0.095	10	24
BZY97C51 GP	48 - 54	60	+ 0.095	10	24
BZY97C56 GP	52 - 60	60	+ 0.095	10	28
BZY97C62 GP	58 - 66	80	+ 0.105	10	28
BZY97C68 GP	64 - 72	80	+ 0.105	10	34
BZY97C75 GP	70 - 79	100	+ 0.105	10	34
BZY97C82 GP	77 - 88	100	+ 0.105	10	41
BZY97C91 GP	85 - 96	200	+ 0.11	5	41
BZY97C100 GP	94 - 106	200	+ 0.11	5	50
BZY97C110 GP	104 - 116	250	+ 0.11	5	50
BZY97C120 GP	114 - 127	250	+ 0.11	5	60
BZY97C130 GP	124 - 141	300	+ 0.11	5	60
BZY97C150 GP	138 - 156	300	+ 0.11	5	75
BZY97C160 GP	153 - 171	400	+ 0.11	5	75
BZY97C180 GP	168 - 191	500	+ 0.11	5	90
BZY97C200 GP	188 - 212	500	+ 0.11	5	90

## Characteristic Curves



# BREAKDOWN CHARACTERISTICS

