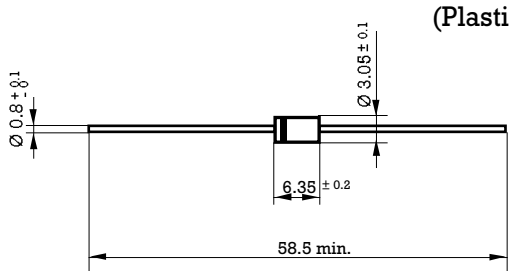


## 1.5 W Zener Diodes

<p><b>Dimensions in mm.</b></p>  <p><b>DO-15 (Plastic)</b></p>	<p><b>Voltage</b> 10 to 200 V</p> <p><b>Power</b> 1.5 W</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>	<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 + 150 °C
$T_{stg}$	Storage temperature range	- 55 to + 150 °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	60° C/W

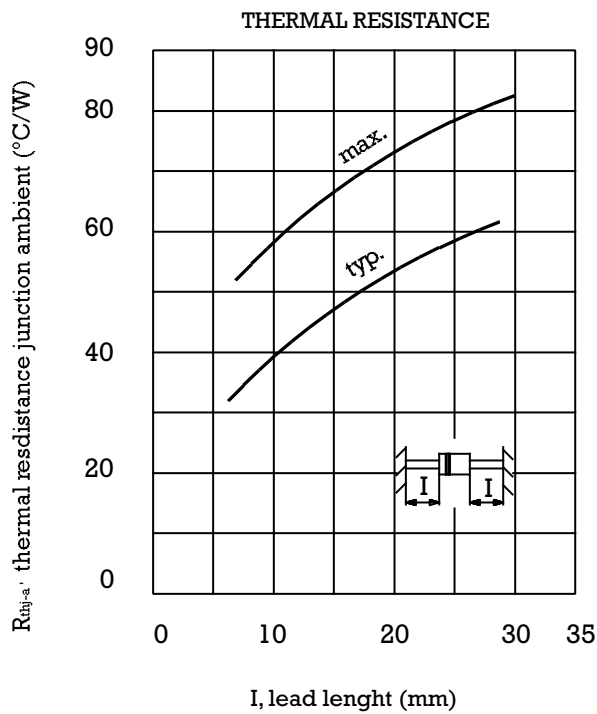
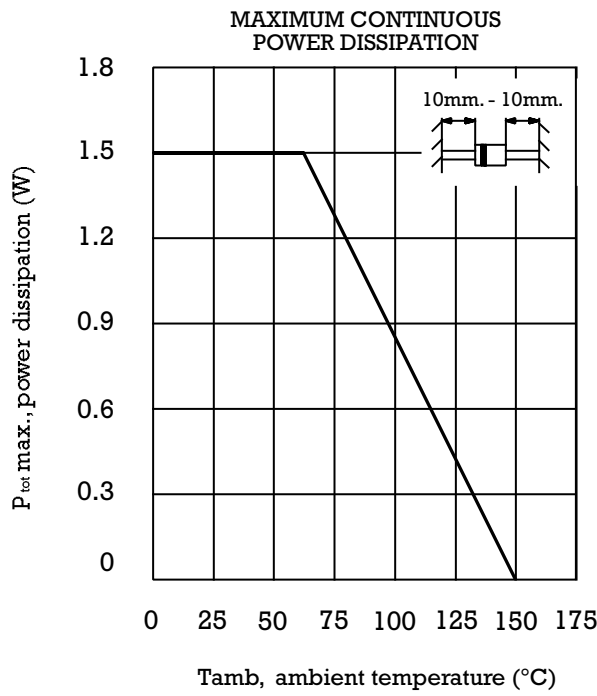
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Type	Zener Voltage Range $V_Z$ at $I_{ZT}$	Maximum Zener Impedance $Z_{ZT}$ at $I_{ZT}$	Typical Temperature Coefficient at $I_{ZT}$	Test Current $I_{ZT}$	Min. Reverse Voltage at $I_R = 1\mu A$ $V_R$
	(V)	( $\Omega$ )	(%/°C)	(mA)	(V)
BZY97C10	9.4 - 10.6	4	+ 0.070	50	5.0
BZY97C11	10.4 - 11.6	7	+ 0.075	50	5.0
BZY97C12	11.4 - 12.7	7	+ 0.075	50	7.0
BZY97C13	12.4 - 14.1	10	+ 0.075	50	7.0
BZY97C15	13.8 - 15.8	10	+ 0.075	50	10
BZY97C16	15.3 - 17.1	15	+ 0.085	25	10
BZY97C18	16.8 - 19.1	15	+ 0.085	25	10
BZY97C20	18.8 - 21.2	15	+ 0.085	25	10
BZY97C22	20.8 - 23.3	15	+ 0.085	25	12
BZY97C24	22.8 - 25.6	15	+ 0.085	25	12
BZY97C27	25.1 - 28.9	15	+ 0.085	25	14
BZY97C30	28 - 32	15	+ 0.085	25	14
BZY97C33	31 - 35	15	+ 0.085	25	17
BZY97C36	34 - 38	40	+ 0.085	10	17
BZY97C39	37 - 41	40	+ 0.085	10	20
BZY97C43	40 - 46	45	+ 0.095	10	20
BZY97C47	44 - 50	45	+ 0.095	10	24
BZY97C51	48 - 54	60	+ 0.095	10	24
BZY97C56	52 - 60	60	+ 0.095	10	28
BZY97C62	58 - 66	80	+ 0.105	10	28
BZY97C68	64 - 72	80	+ 0.105	10	34
BZY97C75	70 - 79	100	+ 0.105	10	34
BZY97C82	77 - 88	100	+ 0.105	10	41
BZY97C91	85 - 96	200	+ 0.11	5	41
BZY97C100	94 - 106	200	+ 0.11	5	50
BZY97C110	104 - 116	250	+ 0.11	5	50
BZY97C120	114 - 127	250	+ 0.11	5	60
BZY97C130	124 - 141	300	+ 0.11	5	60
BZY97C150	138 - 156	300	+ 0.11	5	75
BZY97C160	153 - 171	350	+ 0.11	5	75
BZY97C180	168 - 191	350	+ 0.11	5	90
BZY97C200	188 - 212	350	+ 0.11	5	90

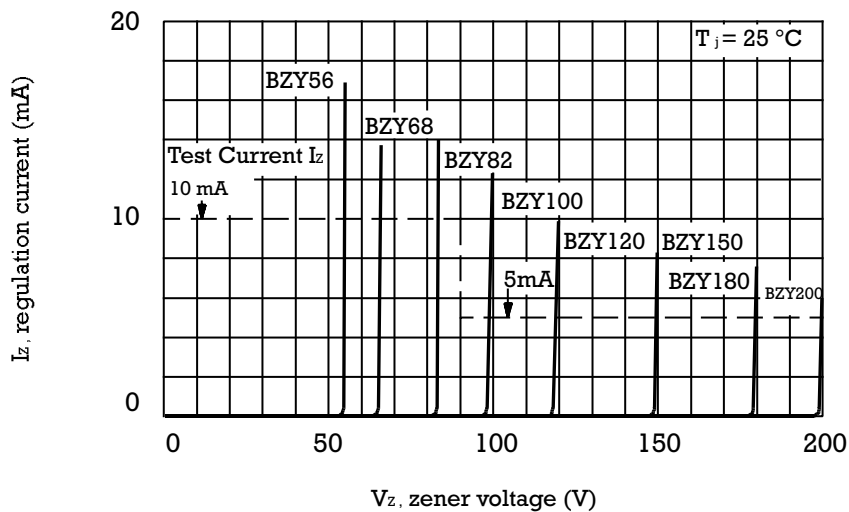
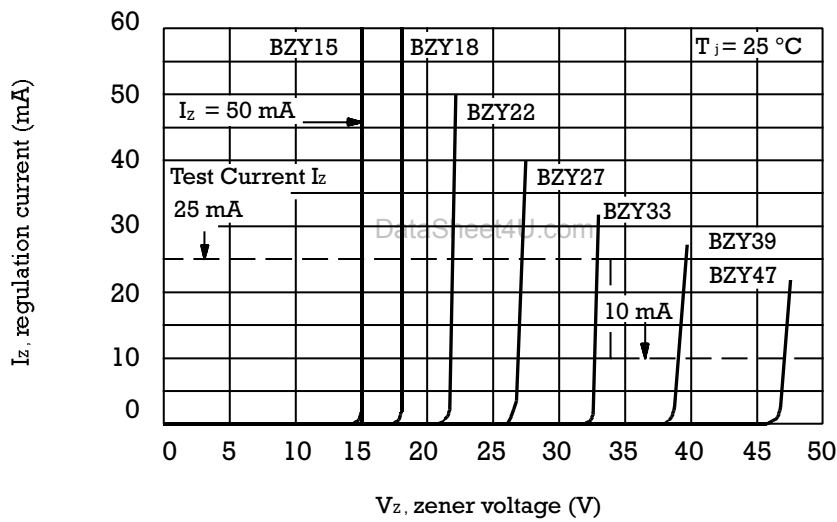
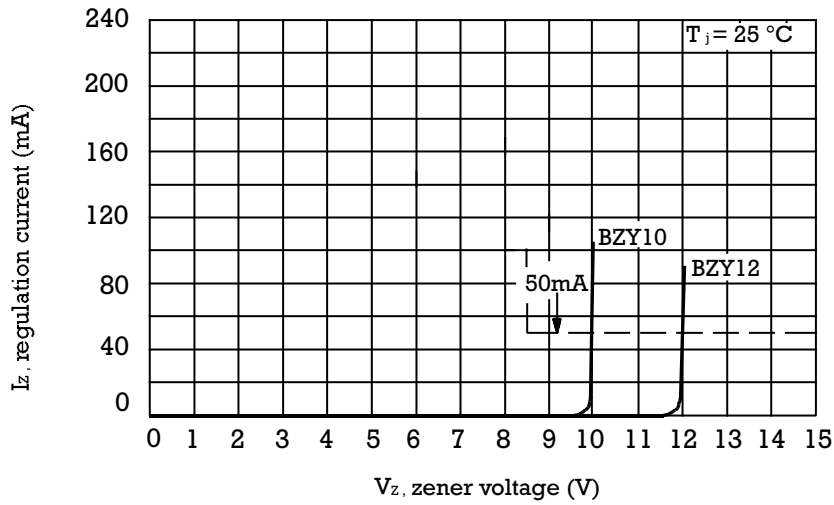


### Characteristic Curves





BREAKDOWN CHARACTERISTICS

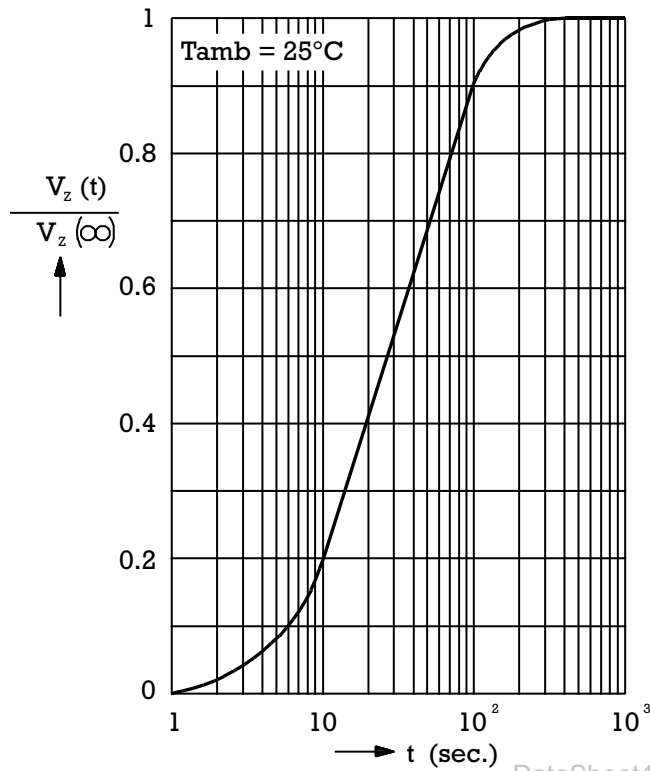


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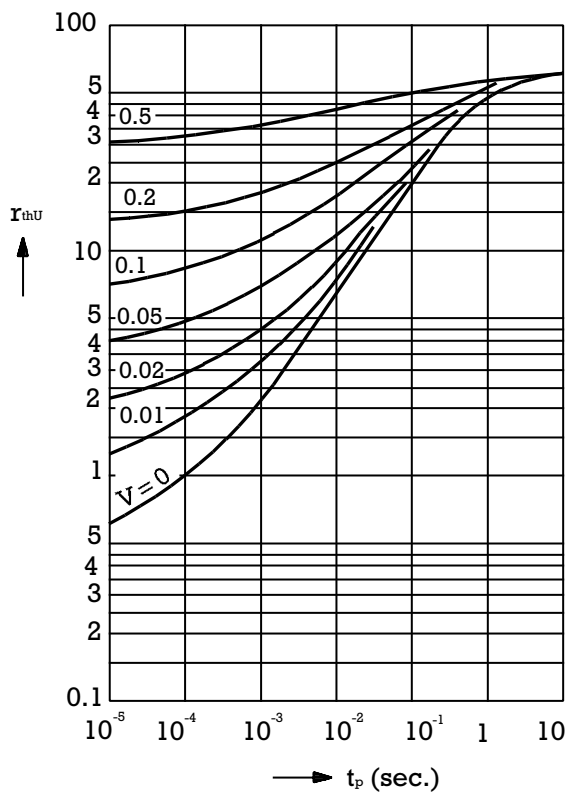
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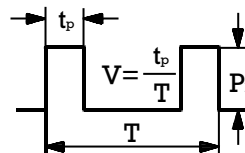
BZY97



Relative change of Zener voltage versus turn-on time.



Pulse thermal resistance versus pulse duration. Valid provided that leads are kept at ambient temperature at a distance of 10mm. from case.



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