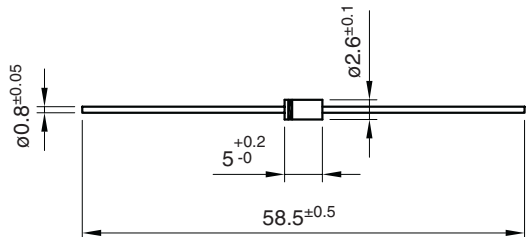



**400W Bidirectional Transient Voltage Suppressor Diodes**

<p><b>Dimensions in mm.</b></p> <div style="text-align: center;">  <p>Diagram showing dimensions for DO-41 (Plastic) diode: Total length 58.5±0.5 mm, lead diameter ø0.8±0.05 mm, lead length 5-0 mm, mounting hole diameter ø2.6±0.1 mm, and a +0.2/-0 mm offset.</p> </div> <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 style="text-align: center;"><b>DO-41 (Plastic)</b></p> <p style="text-align: center;"><b>Peak Pulse Power Rating At 1ms. Exp. 400 W</b></p> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>• <b>Glass passivated junction</b></li> <li>• Low Capacitance AC signal protection</li> <li>• Response time typically &lt; 1 ns.</li> <li>• Molded case</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminal: Axial leads</li> </ul>
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**Maximum Ratings, According to IEC Publication No. 134**

$P_{pp}$	Peak pulse power with 10/1000 $\mu$ s exponential pulse	400 W
$T_j$	Operating temperature range	- 55 to + 175 °C
$T_{stg}$	Storage temperature range	- 55 to + 175 °C
$P_{M(AV)}$	Steady state Power dissipation (l = 10 mm)	1 W

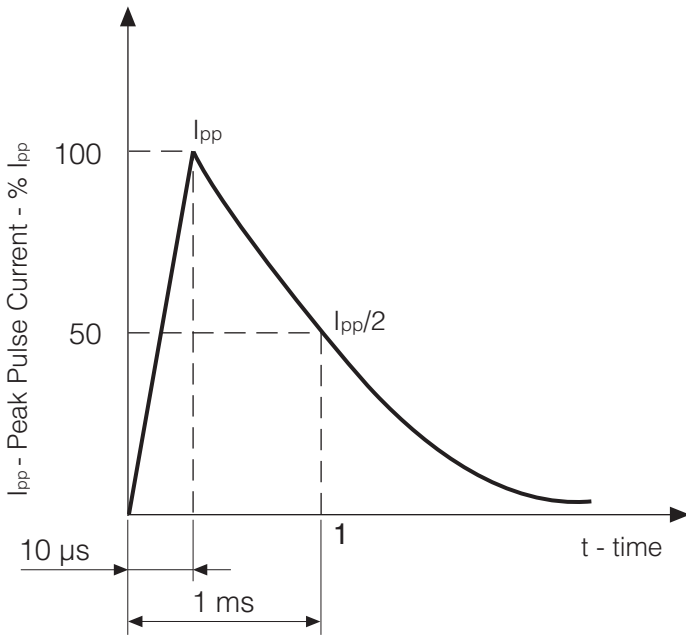
**Electrical Characteristics at Tamb = 25 °C**

$R_{thj-a}$	Max. thermal resistance (l = 10 mm.)	60 °C/W
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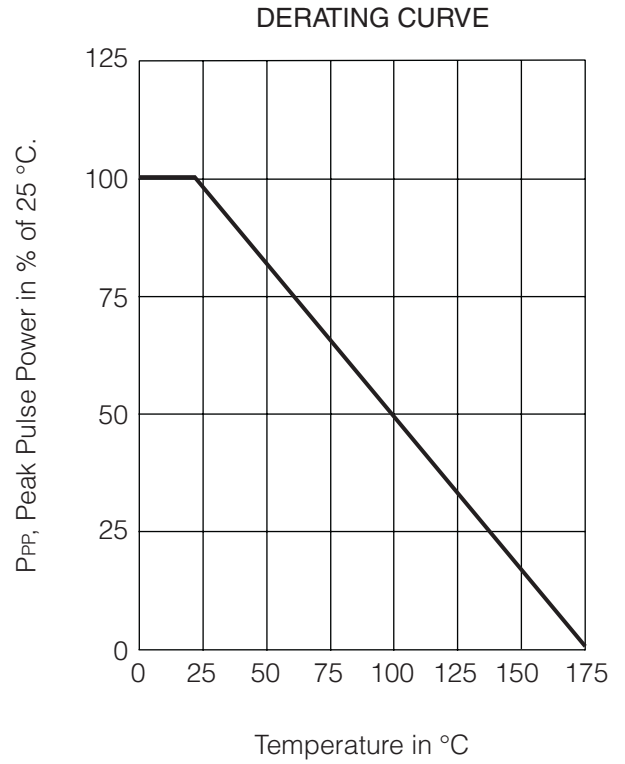
Type	Maximum Reverse Leakage Current		(1) Breakdown Voltage				Max. Clamping Voltage	
	$I_{RM}$ at	$V_{RM}$	$V_{BR}$ at	$I_R$		$V_{CL}$ at	$I_{pp}$	
	( $\mu$ A)	(V)	(V)	(mA)		max. 1ms. Expo.		
			Min.	Nom.	Max.		(V)	(A)
BZW04P-28B	5.0	28.2	31.4	33.0	36.3	1	45.7	8.8
BZW04P-33B	5.0	33.3	37.1	39.0	42.9	1	53.9	7.4

(1): Tested with pulses.  
Pulse test:  $t_p \leq ms$ ;  $\delta < 2\%$

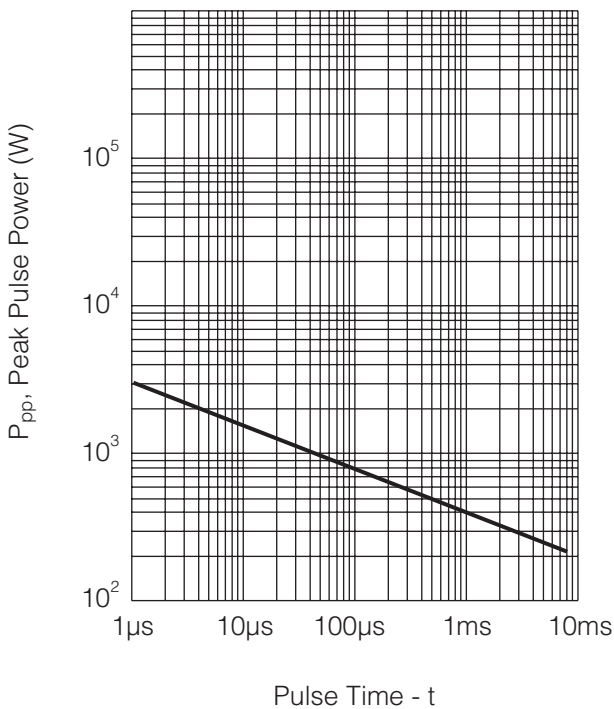
**Rating And Characteristic Curves**



Pulse wave form 10/1000



PEAK PULSE POWER RATING CURVE



TYPICAL JUNCTION CAPACITANCE

