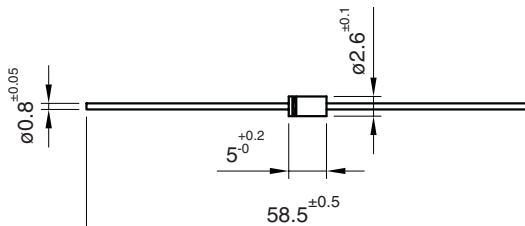



400W Unidirectional Transient Voltage Suppressor Diodes

<p>Dimensions in mm.</p>  <p>DO-41 (Plastic)</p> <p>Mounting instructions</p> <ol style="list-style-type: none"> 1. Min. distance from body to soldering point, 4 mm. 2. Max. solder temperature, 350 °C. 3. Max. soldering time, 3.5 sec. 4. Do not bend lead at a point closer than 2 mm. to the body. 	<p>Peak Pulse Power Rating At 1ms. Exp. 400 W</p> 
	<ul style="list-style-type: none"> • Glass passivated junction • Low Capacitance AC signal protection • Response time typically < 1 ns. • Molded case • The plastic material carries U/L recognition 94 V-0 • Terminal: Axial leads

Maximum Ratings, According to IEC Publication No. 134

P_{PP}	Peak pulse power with 10/1000 μ s exponential pulse	400 W
I_{FSM}	Non repetitive surge peak forward current (t = 8.3 msec.) (Jedec Method) (Note 1)	40 A
T_j	Operating temperature range	- 65 to + 175 °C
T_{stg}	Storage temperature range	- 65 to + 175 °C
$P_{M(AV)}$	Steady state Power dissipation (l = 10 mm)	1 W

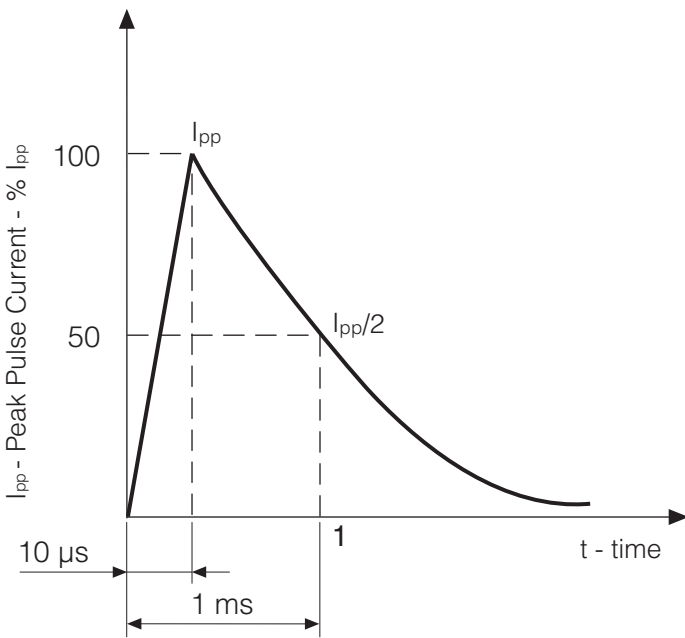
Electrical Characteristics at Tamb = 25 °C

V_F	Max. forward voltage drop at $I_F = 25$ A	3.5 V
R_{thj-l}	Max. thermal resistance (l = 10 mm.)	60 °C/W

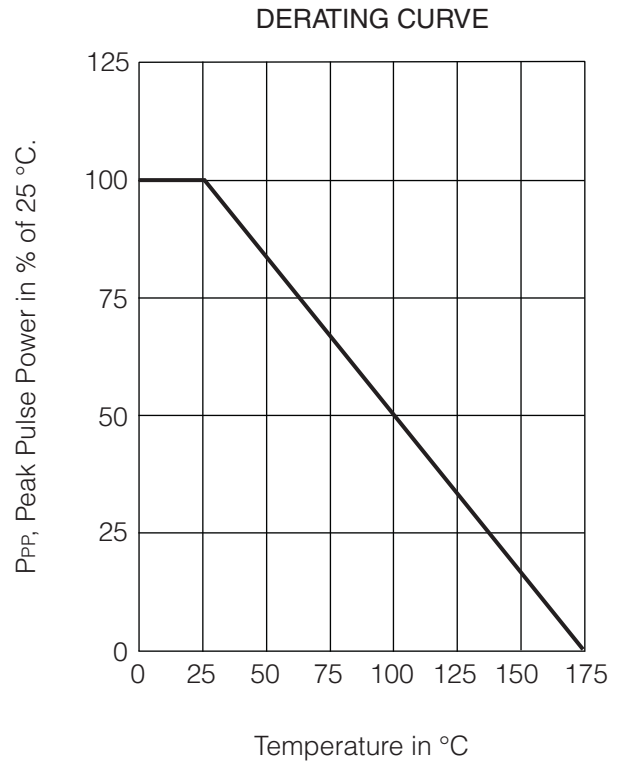
Type	Maximum Reverse Leakage Current		(1) Breakdown Voltage				Max. Clamping Voltage	
	I_{RM} at V_{RM}	V_{RM}	Min.	Nom.	Max.	I_R (mA)	V_{CL} at I_{pp} max. 1ms. Expo.	I_{pp} (A)
Unidirectional	(μ A)	(V)					(V)	(A)
P4KE18	5	14.5	16.2	18	19.8	1	26.5	15.1
P4KE18A	5	15.3	17.1	18	18.9	1	25.2	16
P4KE200A	5	171	190	200	210	1	274	1.5
P4KE550	1	495	550	610	671	0.1	760	0.4

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

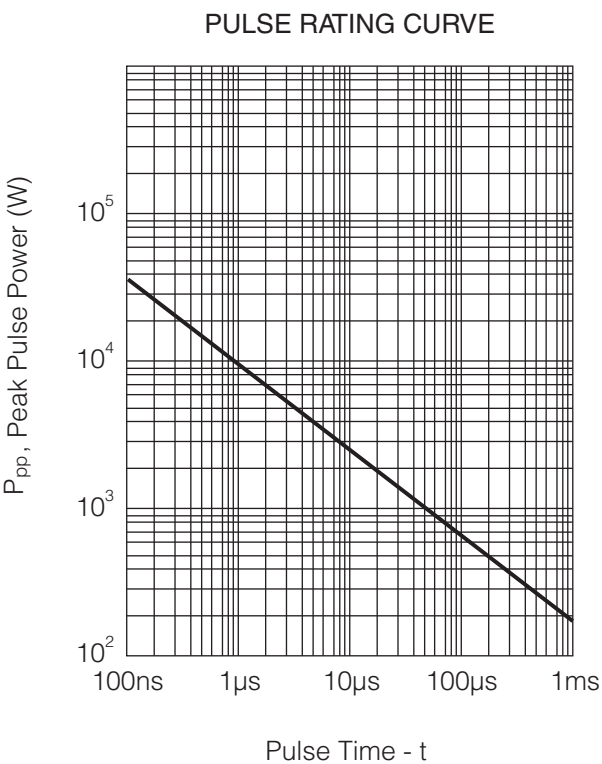
Rating And Characteristic Curves



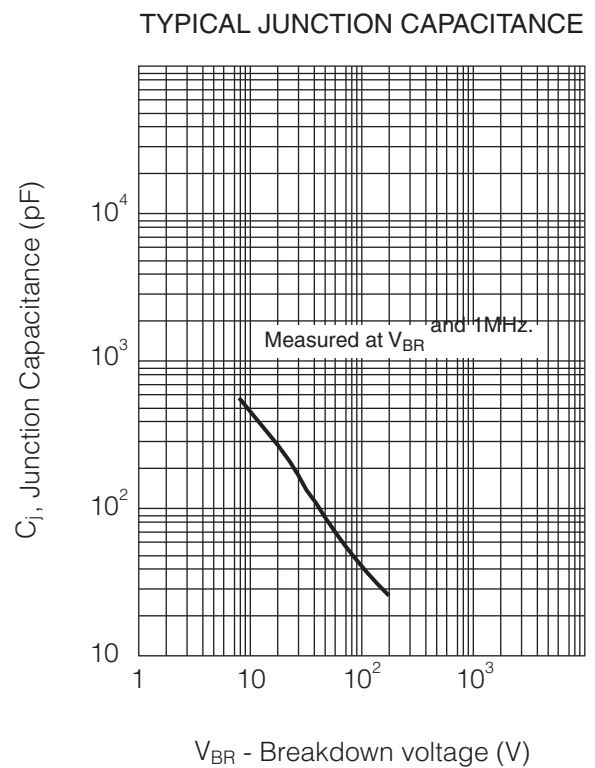
Pulse wave form 10/1000



Temperature in °C



PULSE RATING CURVE



TYPICAL JUNCTION CAPACITANCE