





### 5. Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p = 8/20\mu s$ )	$P_{PP}$	450	Watts
Peak Pulse Current ( $t_p = 8/20\mu s$ ) (note1)	$I_{pp}$	40	A
Lead Soldering Temperature	$T_L$	260(10seconds)	$^{\circ}C$
Junction Temperature	$T_J$	-55 to + 125	$^{\circ}C$
Storage Temperature	$T_{stg}$	-55 to + 125	$^{\circ}C$

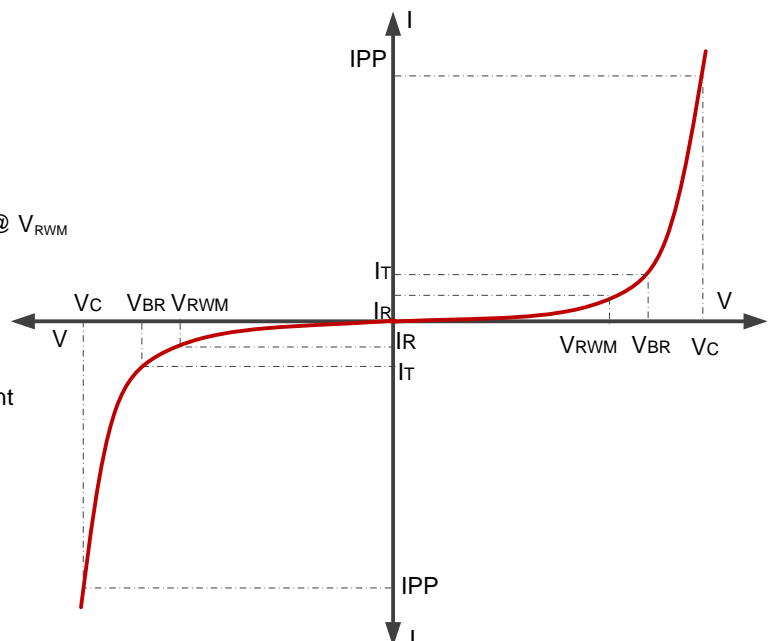
Note.: 8/20 $\mu s$  pulse waveform.

### 6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	$V_{RWM}$				3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	4.0			V
Reverse Leakage Current	$I_R$	$V_{RWM}=3.3V, T=25^{\circ}C$		100	500	nA
Peak Pulse Current	$V_C$	$t_p=8/20\mu s$			40	A
Clamping Voltage	$V_C$	$I_{PP}=1A, t_p=8/20\mu s$			5.5	V
		$I_{PP}=40A, t_p=8/20\mu s$			11	V
Junction Capacitance	$C_j$	$V_R = 0V, f = 1MHz$		100		pF

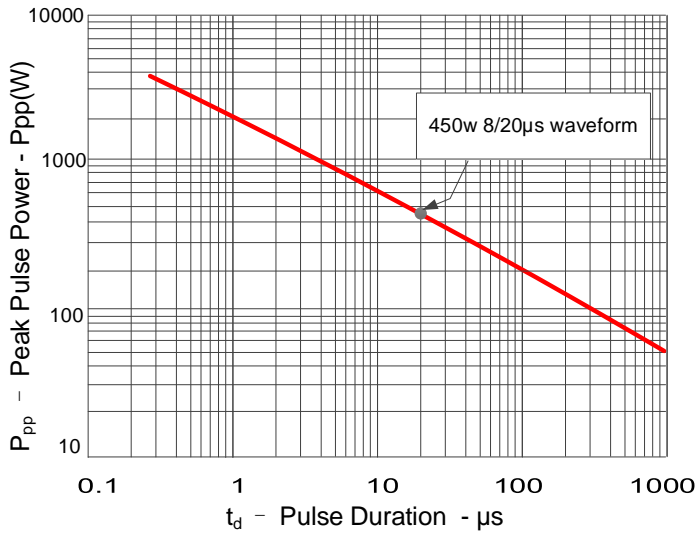
### 7. Electrical Parameters (TA = 25°C unless otherwise noted)

- $V_{RWM}$  .....Reverse Working Voltage Max
- $I_R$  ..... Maximum Reverse Leakage Current @  $V_{RWM}$
- $V_{BR}$  ..... Reverse Breakdown Voltage
- $V_C$  ..... Clamping Voltage @  $I_{PP}$
- $I_{PP}$  ..... Maximum Reverse Peak Pulse Current

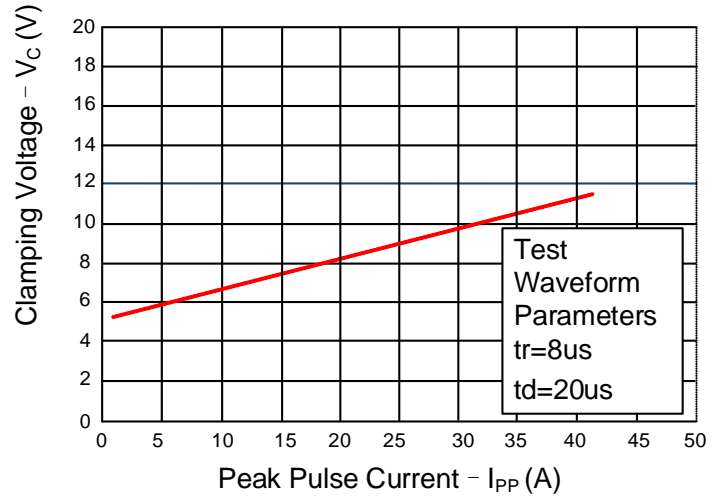


## 8. Typical Characteristics

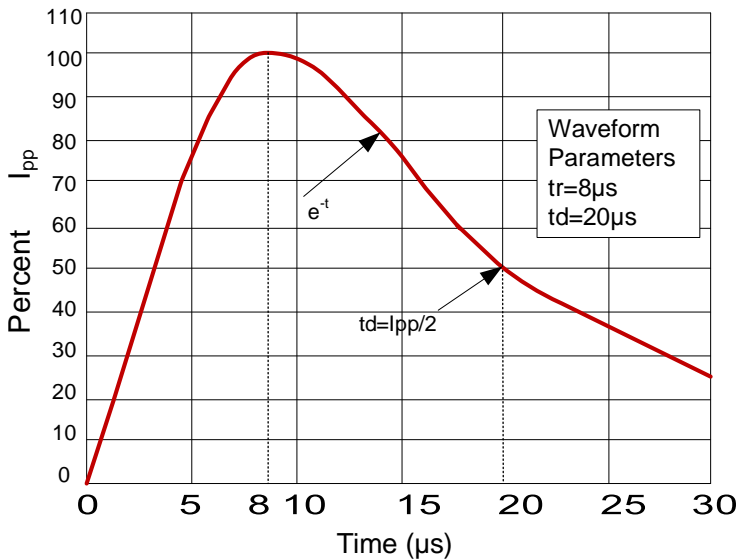
Non-repetitive Peak Pulse Power vs. Pulse Time



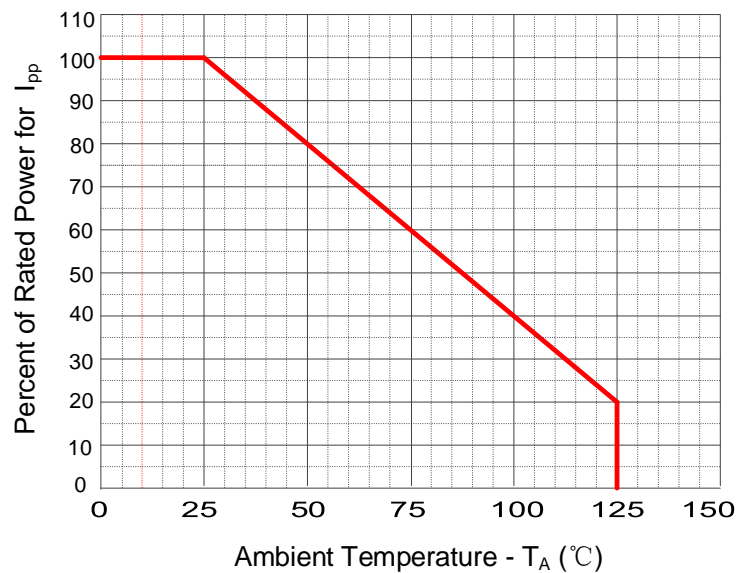
Reverse Clamping Voltage vs. Peak Pulse Current



8/20μs Pulse Waveform



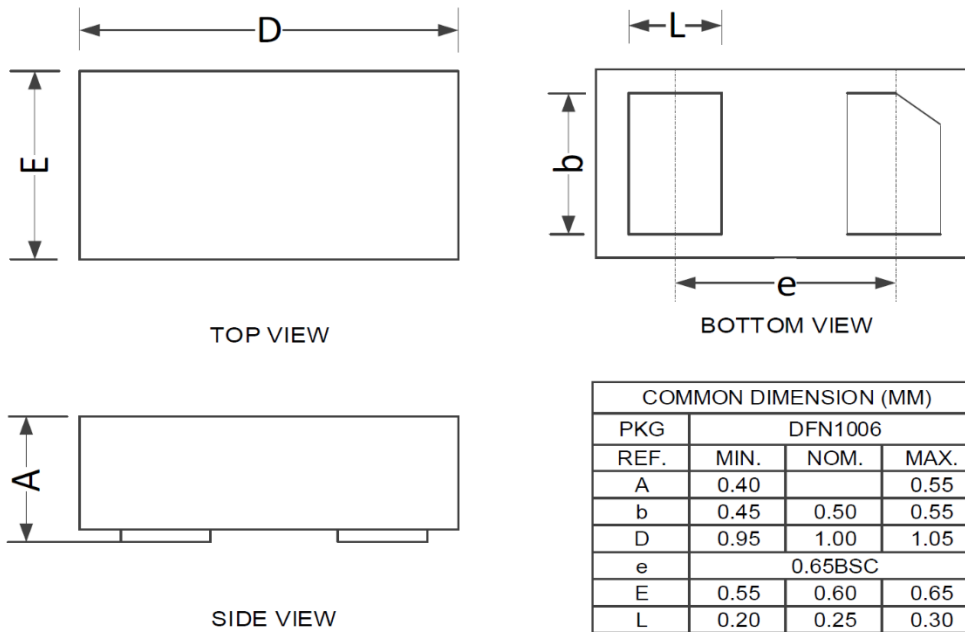
Power derating vs. Ambient temperature



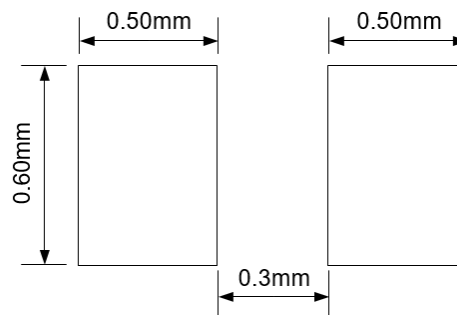


## Outline Drawing – DFN1006

### 9. Package information



### 10. Recommend PCB Layout



### 11. Marking Code

Part Number	Marking Code
LKS03N4AX40-B	E3

### 12. Ordering information

Order code	Package	Base qty	Delivery mode
LKS03N4AX40-B	DFN1006	10k	Tape and reel



### 13. Contact Information

Online product information is available at [www.lanker-semi.com](http://www.lanker-semi.com)

Buy our products or get free samples, for further information and requests,

e-mail us at: [sales @lanker-semi.com](mailto:sales@lanker-semi.com)

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### 15. Reversion History

Document ID	Release Date	Sheet Status	Change Notice	Supersedes
02	03-Jun-2022	Product data sheet	-	-