# LKP15N4AX40

Rev. 02 — 3 June 2022

#### **Product Profile**

#### 1. Features

- 1100Watts peak pulse power (tp = 8/20µs)
- Unidirectional configurations
- Reverse Working Voltage: 15V
- IEC 61000-4-2 : ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT) : 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 40A (8/20µs)=

#### 2. Applications

- Power supply protection
- Power managementervers

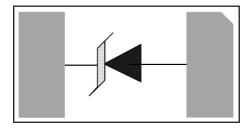
### 3. Mechanical Data

- DFN1006 package
- Molding compound flammability rating: UL94V-0

DFN1006-2L

- Packaging: Tape and Reel
- RoHS/WEEE Compliant

### 4. Pinning information



DFN1006







# 5. Absolute Maximum Rating

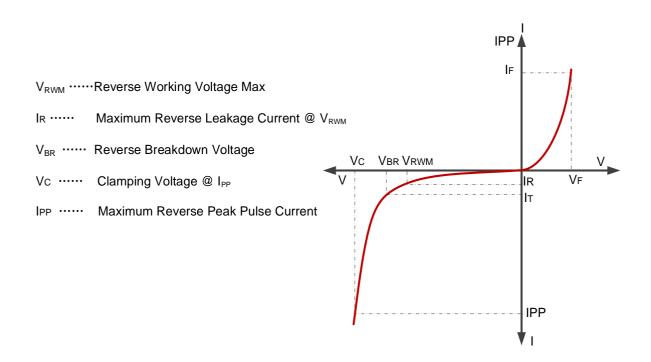
Rating	Symbol	Value	Units	
Peak Pulse Power ( t <sub>p</sub> =8/20µs )	P <sub>PP</sub>	1100	Watts	
Peak Pulse Current ( t <sub>p</sub> =8/20µs ) (note1)	I <sub>pp</sub>	40	A	
Lead Soldering Temperature	TL	260(10seconds)	Ĉ	
Junction Temperature	TJ	-55 to + 125	°C	
Storage Temperature	T <sub>stg</sub>	-55 to + 125	°C	

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

#### 6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				15	V
Reverse Breakdown Voltage	Vbr	IT=1mA	16.7			V
Reverse Leakage Current	I <sub>R</sub>	VRWM=15V, T=25℃			1	uA
Clamping Voltage	Vc	IPP=40A, tp=8/20µs			28	V
Junction Capacitance	Cj	VR = 0V, f = 1MHz		90		pF

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

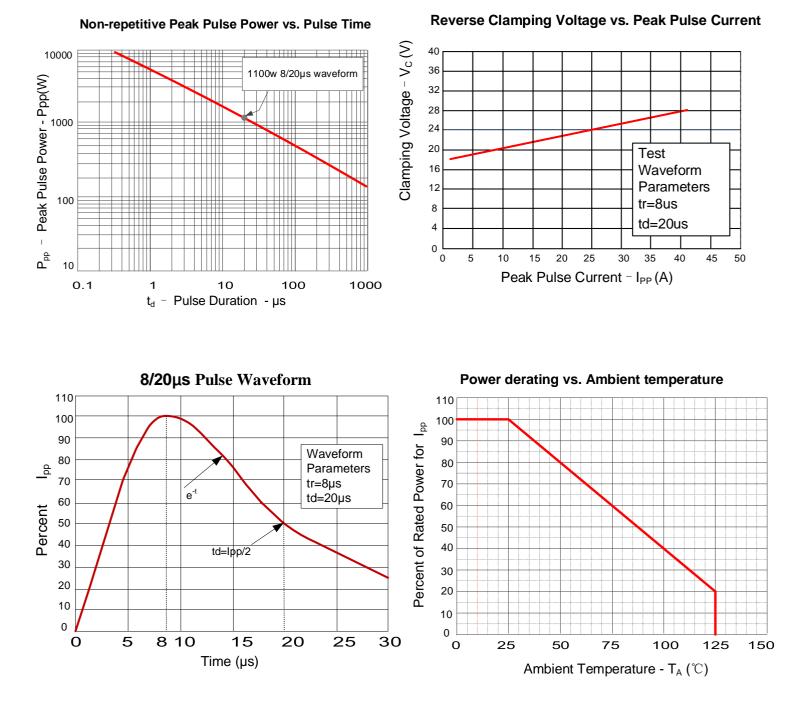




LKP15N4AX40

TVS Protection Diode

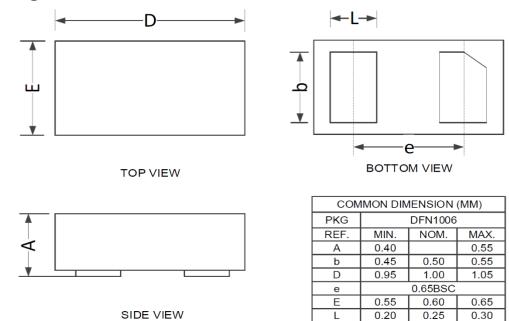
### 8. Typical Characteristics



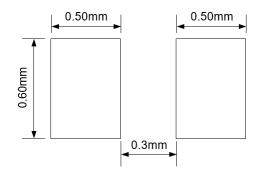


### **Outline Drawing – DFN1006**

#### 9. Package information



#### 10. Recommend PCB Layout



## 11. Marking Code

Part Number	Marking Code	
LKP15N4AX40	P15	P15

### 12. Ordering information

Order code	Package	Base qty	Delivery mode
LKP15N4AX40	DFN1006	10k	Tape and reel



**TVS** Protection Diode

#### **13. Contact Information**

Online product information is available at www.lanker-semi.com

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

e-mail us at: sales @lanker-semi.com

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#### **15. Reversion History**

Document ID	Release Date	Sheet Status	Change Notice	Supersedes
<b>0</b> 2	03-Jun-2022	Product data sheet	-	-