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

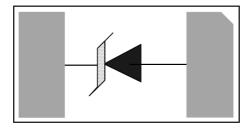
3. Mechanical Data

- 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

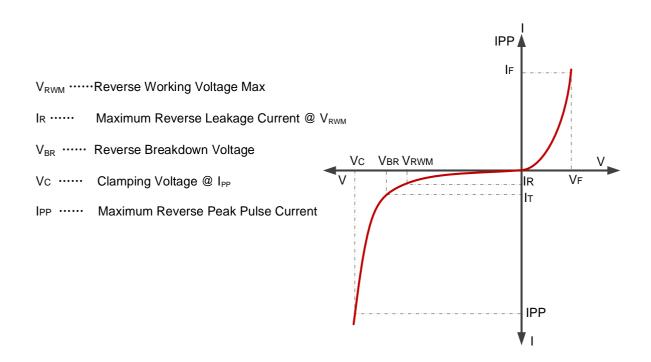
Rating	Symbol	Value	Units	
Peak Pulse Power (t _p =8/20µs)	P _{PP}	1100	Watts	
Peak Pulse Current (t _p =8/20µs) (note1)	I _{pp}	40	A	
Lead Soldering Temperature	TL	260(10seconds)	Ĉ	
Junction Temperature	TJ	-55 to + 125	°C	
Storage Temperature	T _{stg}	-55 to + 125	°C	

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

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	Vbr	IT=1mA	16.7			V
Reverse Leakage Current	I _R	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)

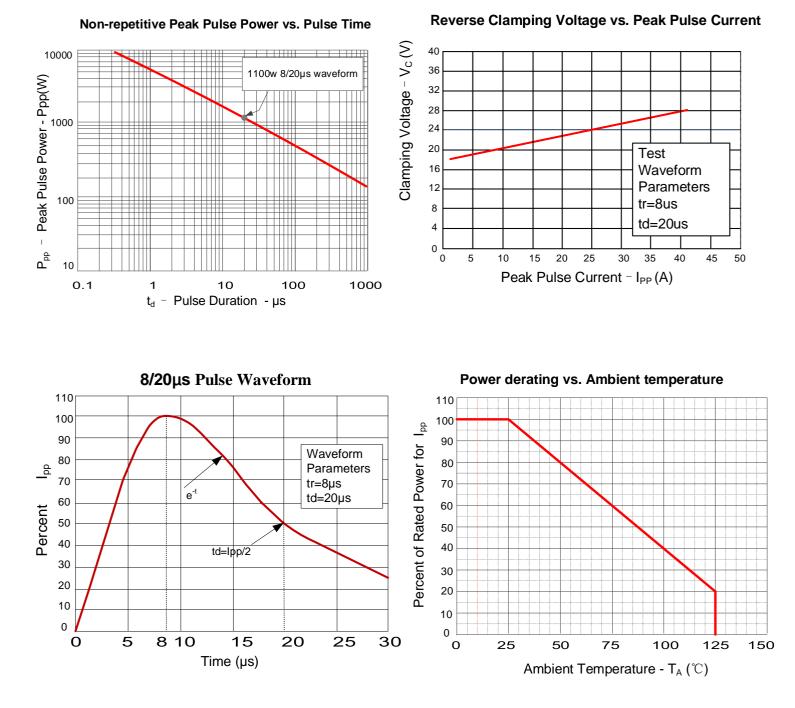




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TVS Protection Diode

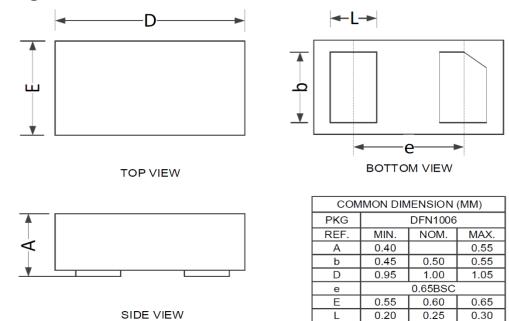
8. Typical Characteristics



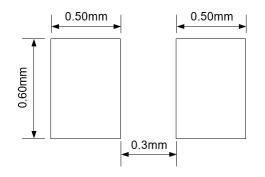


Outline Drawing – DFN1006

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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lanker-semi reserves the right to change specifications and prices at any time and without notice. Therefore, prior to designing this product into a system, it is necessary to check with lanker-semi for current information.

This product is intended for use in commercial applications.

Applications requiring extended temperature range, unusual environmental requirements, or high reliability applications, such as military, medical life-support or life-sustaining equipment are specifically not recommended without additional processing by lanker-semi for each application.

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15. Reversion History

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