

LKP24N4AX40

RoHS

Rev. 02 — 3 June 2022

Halogen Free

Product Profile

1. Features

- 1400Watts peak pulse power (tp = 8/20µs)
- Unidirectional configurations
- Reverse Working Voltage: 24V
- IEC 61000-4-2: ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT): 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 40A (8/20µs)



DFN1006-2L

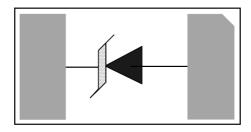
2. Applications

- Power supply protection
- Power managementervers

3. Mechanical Data

- DFN1006 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4. Pinning information



DFN1006

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5. Absolute Maximum Rating

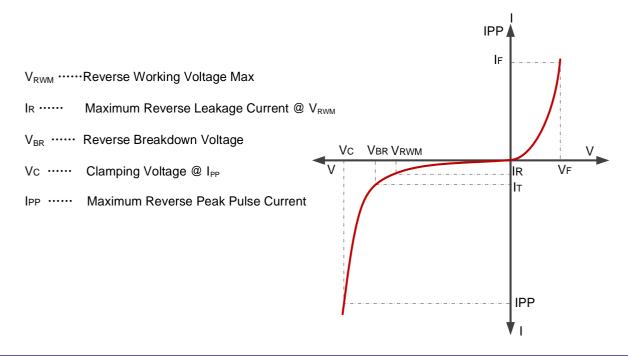
Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20µs)	P _{PP}	1400	Watts
Peak Pulse Current (t _p =8/20μs) (note1)	I _{pp}	40	А
Lead Soldering Temperature	TL	260(10seconds)	$^{\circ}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}$ C

Note: 8/20µs pulse waveform.

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				24.0	V
Reverse Breakdown Voltage	VBR	IT=1mA	26.7			V
Reverse Leakage Current	I _R	VRWM=24.0V,T=25°C			1	uA
Peak Pulse Current	Vc	tp=8/20μs			40	А
Clamping Voltage	Vc	IPP=40A, tp=8/20µs			35	V
Junction Capacitance	C _j	VR = 0V, f = 1MHz		60		pF

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

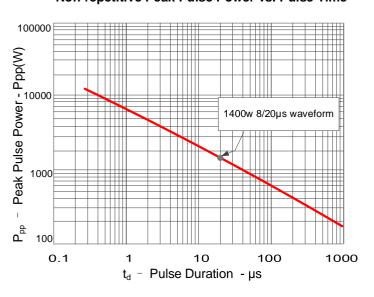


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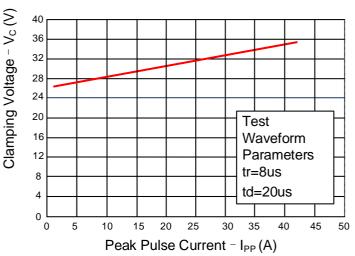


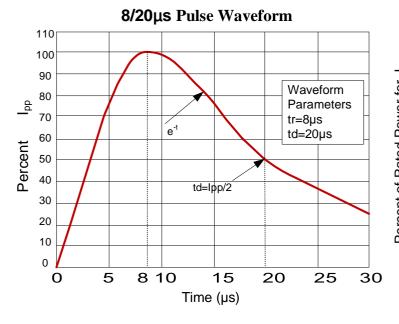
8. Typical Characteristics

Non-repetitive Peak Pulse Power vs. Pulse Time

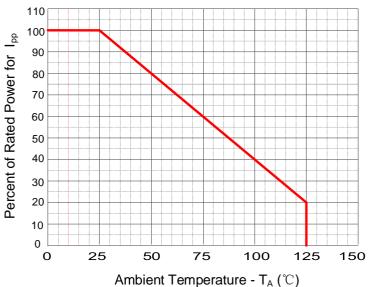


Reverse Clamping Voltage vs. Peak Pulse Current





Power derating vs. Ambient temperature

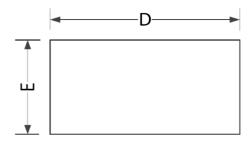


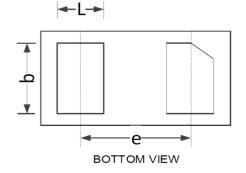
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Outline Drawing - DFN1006

9. Package information





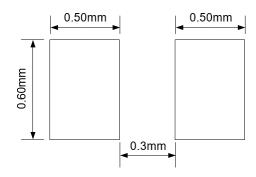


SIDE VIEW

TOP VIEW

COMMON DIMENSION (MM)			
PKG	DFN1006		
REF.	MIN.	NOM.	MAX.
Α	0.40		0.55
b	0.45	0.50	0.55
D	0.95	1.00	1.05
е	0.65BSC		
Е	0.55	0.60	0.65
	0.20	0.25	0.30

10. Recommend PCB Layout



11. Marking Code

Part Number	Marking Code
LKP24N4AX40	P24



12. Ordering information

Order code	Package	Base qty	Delivery mode
LKP24N4AX40	DFN1006	10k	Tape and reel

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13. Contact Information

Online product information is available at www.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	-	-

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