

LKS06N5A120

RoHS

Rev. 02 — 3 June 2022

Halogen Free

Product Profile

1. Features

- 2400Watts peak pulse power (tp = 8/20µs)
- Unidirectional configurations
- Reverse Working Voltage: 6.5V
- capacitance: Cj = 1100pF typ
- IEC 61000-4-2: ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT): 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 120A (8/20µs)



DFN1610-2L

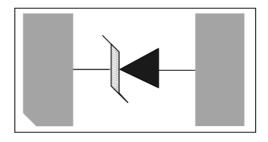
2. Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants
- Notebooks, Desktops, and Servers
- Portable Instrumentation

3. Mechanical Data

- DFN1610 package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4. Pinning information



DFN1610

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5. Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20µs)	P _{PP}	2400	Watts
Peak Pulse Current (t _p =8/20μs) (note1)	I _{pp}	120	А
Lead Soldering Temperature	TL	260(10seconds)	$^{\circ}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}$

Note:. 8/20µs pulse waveform.

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				6.5	V
Reverse Breakdown Voltage	VBR	IT=1mA	7.0	7.2		V
Reverse Leakage Current	I _R	VRWM=6.5V,T=25°C			1	uA
Peak Pulse Current	Vc	tp=8/20µs		80		А
Clamping Voltage	Vc	IPP=120A, tp=8/20μs		20		V
Junction Capacitance	C _j	VR = 0V, f = 1MHz		1100		pF

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

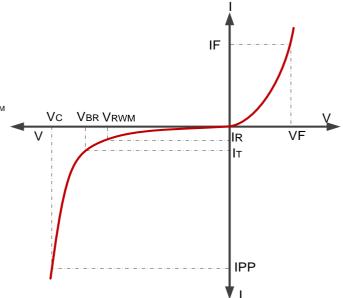
V_{RWM} ······Reverse Working Voltage Max

IR ····· Maximum Reverse Leakage Current @ V_{RWM}

V_{BR} ····· Reverse Breakdown Voltage

 $\mbox{Vc } \cdots \cdots \ \ \mbox{Clamping Voltage @ $I_{\mbox{\tiny PP}}$}$

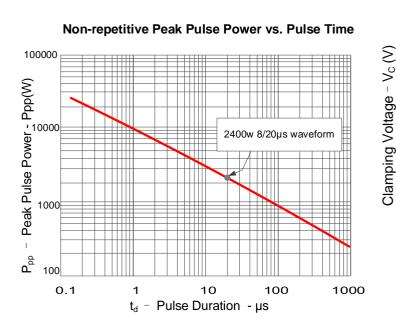
IPP Maximum Reverse Peak Pulse Current

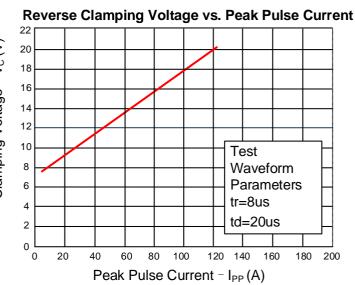


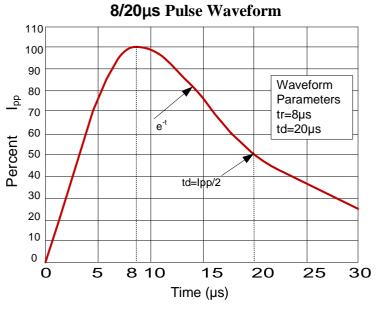
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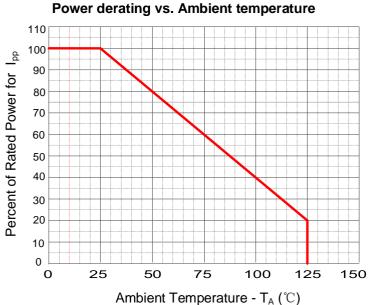


8. Typical Characteristics







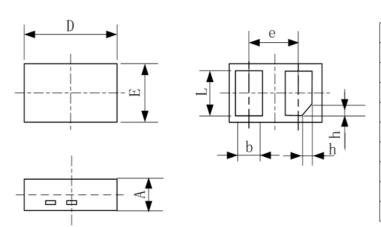


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Outline Drawing - DFN1610

9. Package information



COMMON DIEMENSION (MM)				
PKG	DFN1610			
REF.	MIN.	NON.	MAX.	
A	0.45	0.50	0.55	
D	1.55	1.60	1.65	
Е	0.95	1.00	1.05	
b	0.35	0.40	0.45	
L	0.75	0.80	0.85	
е	1. 10BSC			
h	0. 15	0. 20	0, 25	

10. Marking Code

Part Number	Marking Code		
LKS06N5A120	6 Y		



11. Ordering information

Order code	Package	Base qty	Delivery mode
LKS06N5A120	DFN1610	10k	Tape and reel

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12. Contact Information

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

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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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14. Reversion History

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

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