LKS06N5A140-B

Rev. 02 — 3 June 2022

Product Profile

1. Features

- 2500Watts peak pulse power (tp = 8/20µs)
- Reverse Working Voltage: 6.5V
- capacitance: Cj = 570pF typ
- IEC 61000-4-2 : ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT) : 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 140A (8/20µs)

2. Applications

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

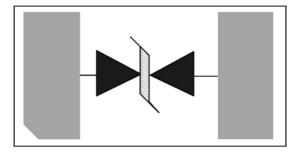
3. Mechanical Data

- DFN1610 package
- Molding compound flammability rating: UL94V-0

DFN1610-2L

- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4. Pinning information



DFN1610







TVS Protection Diode

5. Absolute Maximum Rating

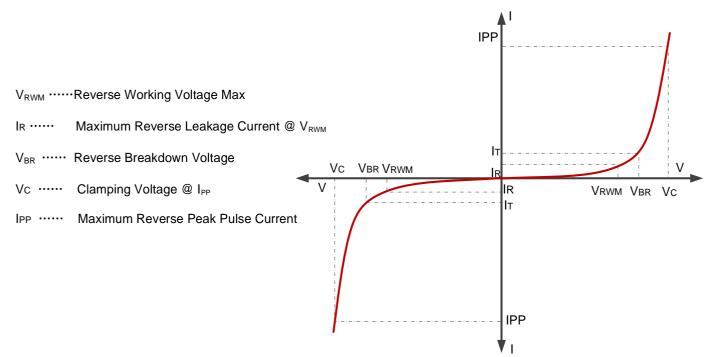
Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20µs)	P _{PP}	2500	Watts
Peak Pulse Current (t _p =8/20µs) (note1)	I _{pp}	140	A
Lead Soldering Temperature	TL	260(10seconds)	°C
Junction Temperature	TJ	-55 to + 125	°C
Storage Temperature	T _{stg}	-55 to + 125	°C

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

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				6.5	V
Reverse Breakdown Voltage	Vbr	IT=1mA	7.0	7.2		V
Reverse Leakage Current	I _R	VRWM=6.5V,T=25 ℃			1	uA
Peak Pulse Current	Vc	tp=8/20µs			140	А
Clamping Voltage	Vc	IPP=140A, tp=8/20µs		18		V
Junction Capacitance	Cj	VR = 0V, f = 1MHz		570		pF

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

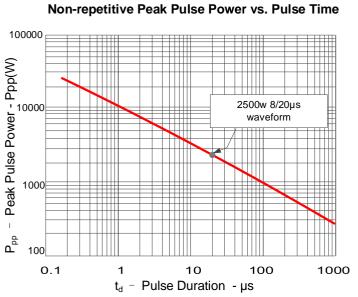




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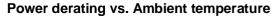
TVS Protection Diode

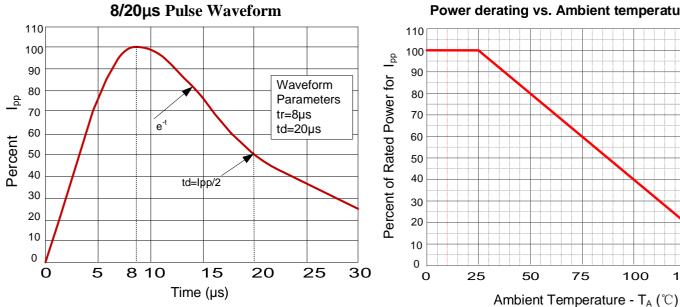
8. Typical Characteristics



Clamping Voltage - V_C (V) Test Waveform Parameters tr=8us td=20us 120 140 Peak Pulse Current - I_{PP} (A)

Reverse Clamping Voltage vs. Peak Pulse Current

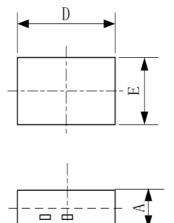


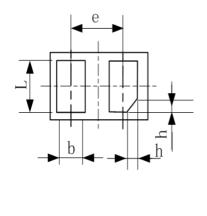




Outline Drawing – DFN1610

9. Package information





COMMON DIEMENSION (MM)				
PKG	DFN1610			
REF.	MIN.	NON.	MAX.	
А	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
LKS06N5A140-B	ew 兕



11. Ordering information

Order code	Package	Base qty	Delivery mode
LKS06N5A140-B	DFN1610	3k	Tape and reel



TVS Protection Diode

12. 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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14. Reversion History

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