LKC05N4C075-B

Rev. 02 — 3 June 2022

Product Profile

1. Features

- 50Watts peak pulse power (tp = 8/20µs)
- Reverse Working Voltage: 5V
- Low capacitance: Cj = 0.75pF typ
- IEC 61000-4-2 : ±15kV contact, ±15kV air
- IEC 61000-4-4 (EFT) : 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 7A (8/20µs)

2. Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

4. Pinning information

Pin	Description
1	Cathode 1
2	Cathode 2









DFN1006-2L

3. Mechanical Data

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



5. Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ($t_p = 8/20 \mu s$)	P _{PP}	50	Watts
Peak Pulse Current ($t_p = 8/20\mu s$) (note1)	I _{pp}	7	A
Lead Soldering Temperature	TL	260(10seconds)	°C
Junction Temperature	TJ	-55 to + 125	°C
Storage Temperature	T _{stg}	-55 to + 125	°C

Note:. 8/20µs pulse waveform.

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V _{RWM}				5.0	V
Holding Voltage	Vн		2.0			V
Holding Current	Ін		15			mA
Reverse Leakage Current	I _R	VRWM=3.3V,T=25 ℃			500	nA
Clamping Voltage	Vc	IPP=7A, tp=8/20µs		6.2	7.5	V
Trigger Voltage	VT		8		16	V
Junction Capacitance	Cj	VR = 0V, f = 1MHz		0.75		pF

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



VRWM

¥r.

VB



SMD ESD Protection Diode

8. Typical Characteristics





Outline Drawing – DFN1006

9. Package information





TOP VIEW



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

10. Recommend PCB Layout



11.Marking Code

12. Ordering information

Order code	Package	Base gtv	Delivery mode
LKC05N4C075-B	DFN1006	10k	Tape and reel



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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This product is intended for use in commercial applications.

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15. Reversion History

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