

### LKE03N3CX22-B



Rev. 02 — 3 June 2022

### **Product Profile**

#### 1. Features

- 100Watts peak pulse power (tp = 8/20µs)
- Reverse Working Voltage: 3.3V
- Low capacitance: Cj = 22pF typ
- IEC 61000-4-2: ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT): 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 10A (8/20µs)



DFN0603-2L

## 2. Applications

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

### 3. Mechanical Data

- DFN0603package
- Molding compound flammability rating: UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

# **4.Pinning information**

Pin	Description	
1	Cathode 1	
2	Cathode 2	





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5. Absolute Maximum Rating

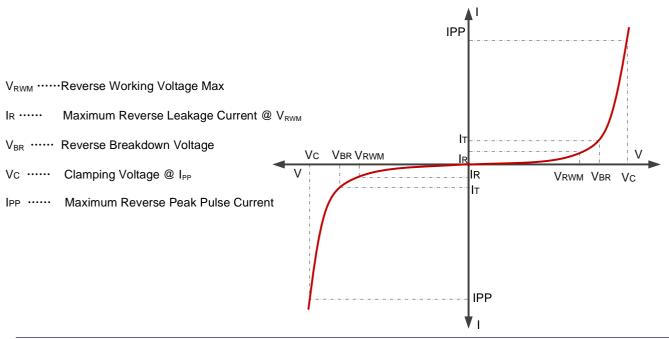
Rating	Symbol	Value	Units
Peak Pulse Power ( t <sub>p</sub> =8/20µs )	P <sub>PP</sub>	100	Watts
Peak Pulse Current ( t <sub>p</sub> =8/20µs ) (note1)	I <sub>pp</sub>	10	А
Lead Soldering Temperature	TL	260(10seconds)	$^{\circ}$
Junction Temperature	TJ	-55 to + 125	°C
Storage Temperature	T <sub>stg</sub>	-55 to + 125	$^{\circ}$ C

Note: 8/20µs pulse waveform.

### 6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	$V_{RWM}$				3.3	V
Reverse Breakdown Voltage	VBR	IT=1mA	3.8			V
Reverse Leakage Current	I <sub>R</sub>	VRWM=3.3V,T=25℃		100	500	nA
Peak Pulse Current	I <sub>pp</sub>	tp=8/20µs		10		А
Clamping Voltage	Vc	IPP=10A, tp=8/20μs		8	10	V
Dynamic resistance	Rdyn	IPP=10A, tp=8/20μs		0.2		Ω
Junction Capacitance	C <sub>j</sub>	VR = 0V, f = 1MHz		22		pF

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

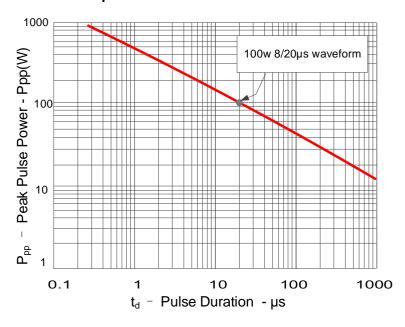


Product data sheet. www.lanker-semi.com 2/5

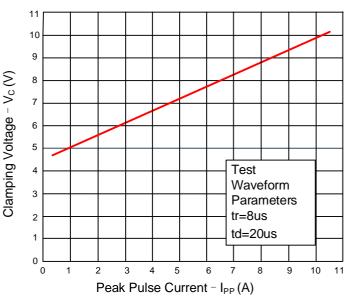


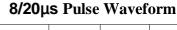
## 8. Typical Characteristics

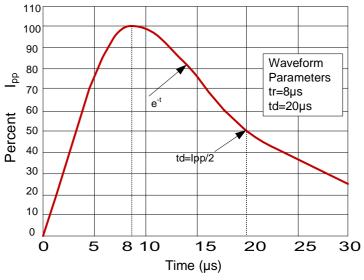
#### Non-repetitive Peak Pulse Power vs. Pulse Time



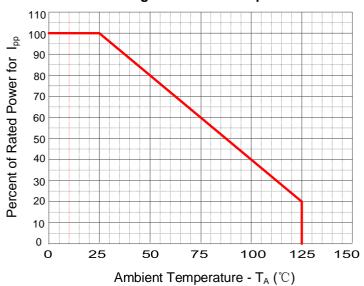
#### Reverse Clamping Voltage vs. Peak Pulse Current







#### Power derating vs. Ambient temperature

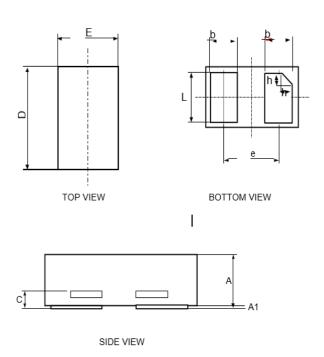


Product data sheet. www.lanker-semi.com 3/5



# **Outline Drawing - DFN0603**

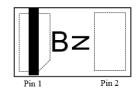
# 9. Package information



	Dimensions in millimeters			
Symbol	Min	Nom	Max	
Α	0.28	0.30	0.34	
A1	0.00	0.02	0.05	
С	0.05	0.10	0.15	
D	0.55	0.60	0.65	
E	0.25	0.30	0.35	
е				
b	0.13	0.19	0.24	
L	0.20	0.25	0.30	
h	0	0.05	0.10	

# 10.Marking Code

Part Number	Marking Code
LKE03N3CX22-B	ВZ



11.Ordering information

<u></u>				
Order code Package		Base qty	Delivery mode	
LKE03N3CX22-B	DFN0603	10k	Tape and reel	

Product data sheet. www.lanker-semi.com 4/5



#### 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,

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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	-	-

Product data sheet. www.lanker-semi.com 5/5