

LKS05D3CXX1-B

RoHS

Rev. 02 — 3 June 2022

Halogen Free

Product Profile

1. Features

- 400Watts peak pulse power (tp = 8/20µs)
- Reverse Working Voltage: 5V
- Low capacitance: Cj = 1pF typ
- IEC 61000-4-2: ±30kV contact, ±30kV air
- IEC 61000-4-4 (EFT): 40A (5/50ns)
- IEC 61000-4-5 (Lightning): 20A (8/20µs)



SOD-323

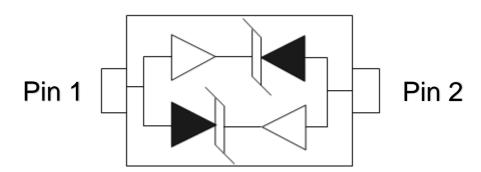
2. Applications

- Ethernet 10/100/1000 Base T
- Cellular Phones
- Handheld Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

3. Mechanical Data

- SOD-323 package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4. Pinning information



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5. Absolute Maximum Rating

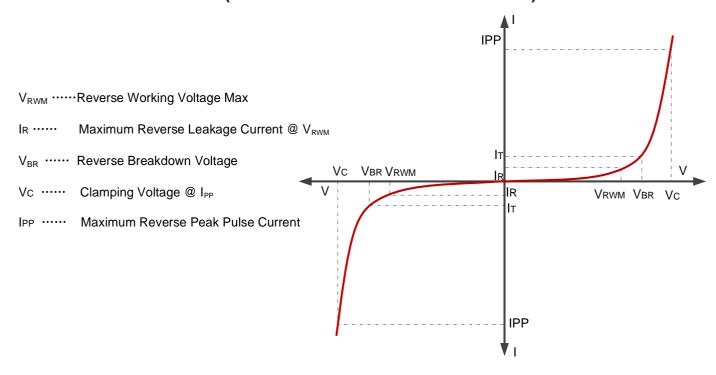
Rating	Symbol	Value	Units
Peak Pulse Power (t _p =8/20µs)	P _{PP}	400	Watts
Peak Pulse Current (t _p =8/20μs) (note1)	I _{pp}	20	А
Lead Soldering Temperature	TL	260(10seconds)	$^{\circ}$
Junction Temperature	TJ	-55 to + 125	$^{\circ}$
Storage Temperature	T _{stg}	-55 to + 125	$^{\circ}$

Note:. 8/20µs pulse waveform.

6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	VBR	IT=1mA	6.0			V
Reverse Leakage Current	I _R	VRWM=5.0V,T=25°C			1	uA
Clamping Voltage	Vc	IPP=20A, tp=8/20µs			20	V
Junction Capacitance	C _j	VR = 0V, f = 1MHz		1.0	1.5	pF

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



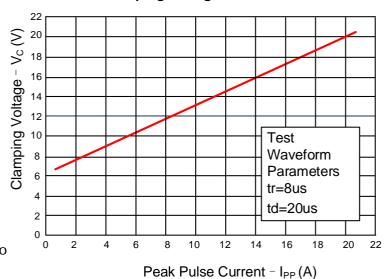
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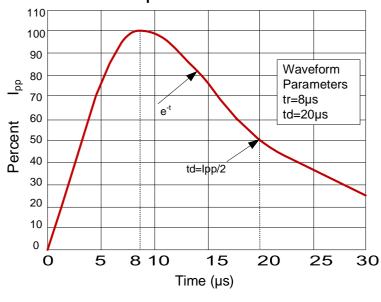
8. Typical Characteristics

Non-repetitive Peak Pulse Power vs. Pulse Time

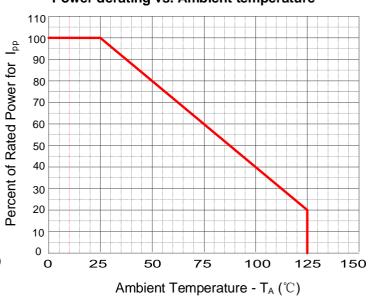
Reverse Clamping Voltage vs. Peak Pulse Current







Power derating vs. Ambient temperature

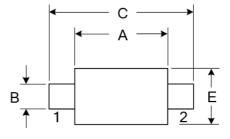


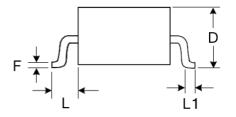
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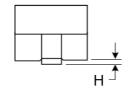


Outline Drawing - SOD-323

9. Package information







DIMENSIONS					
SYMBOL	MILLIMETER		INCHES		
	MIN	MAX	MIN	MAX	
Α	1.600	1.800	0.063	0.071	
В	0.250	0.350	0.010	0.014	
С	2.500	2.700	0.098	0.106	
D		1.000		0.039	
E	1.200	1.400	0.047	0.055	
F	0.080	0.150	0.003	0.006	
L	0.475 REF		0.019	REF	
L1	0.250	0.400	0.010	0.016	
Н	0.000	0.100	0.000	0.004	

10. Marking Code

Part Number	Marking Code
LKS05D3CXX1-B	5BL

11. Ordering information

Order code	Package	Base qty	Delivery mode
LKS05D3CXX1-B	SOD-323	3k	Tape and reel

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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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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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