

Bidirectional Ultra Low Capacitance TVS Array

DESCRIPTION

The SLESD3C031L Series are ultra low capacitance transient voltage suppressor arrays, designed to protect applications such as portable electronics and SMART phones. This series is available in both unidirectional and bidirectional configurations and is rated at 350 Watts for an 8/20µs waveshape.

The SLESD3C031L and Series meets IEC 61000-4-2 (ESD) and IEC 61000-4-4 (EFT) requirements. At higher operating frequencies or faster edge rates, insertion loss and signal integrity are a major concern. This series offers a ultra low capacitance and low leakage current in a miniature SOD-323 package.

ORDERING INFORMATION

- ♦ Device: SLESD3C031L
- ♦ Package: SOD-323
- ♦ Material: Halogen free
- ♦ Packing: Tape & Reel
- ♦ Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦ IEC61000-4-5 (Lightning) 12A (8/20µs)
- ♦ Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦ Working voltages : 3V
- ♦Low leakage current
- \diamond Response Time is < 1 ns

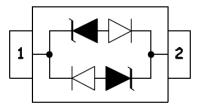
MACHANICAL DATA

- ♦ SOD-323 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- ♦ Reel size: 7 inch

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- \diamond Notebooks, Desktops, and Servers
- \diamond Portable Instrumentation
- \diamond Peripherals
- ♦USB Interface

PIN CONFIGURATION



PACKAGE OUTLINE





ABSOLU	BSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	kV				
	ESD per IEC 61000-4-2 (Contact)	±8					
P _{PP}	Peak Pulse Power (8/20µs)	300	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
ΤL	Lead Soldering Temperature	260	°C				

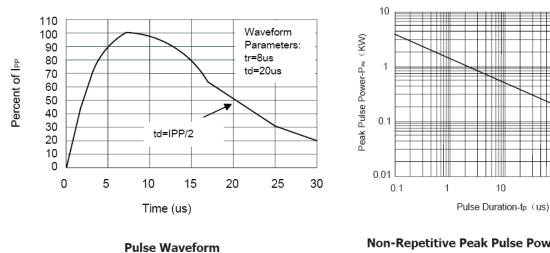
ELECTRICAL CHARACTERISTICS (Tamb=25°C)												
PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	Ι _Τ	V _C @1 A	V _c (V)		I _R	C _T			
		(V)	(V)	(mA)	(V)			(µA)	(pF)			
		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(typ.)			
SLESD3C031L	3B	3.0	4.0	1	7.0	13.9	8	2	0.8			



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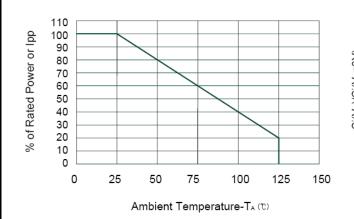
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ELECTRICAL CHARACTERISTICS CURVE

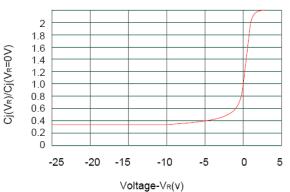




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Power Derating Curve



Junction Capacitance vs. Reverse Voltage



