

Bidirectional Ultra Low Capacitance TVS Array

DESCRIPTION

The SLESD3C151L 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 SLESD3C151L 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.

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ns)
- ♦ IEC61000-4-5 (Lightning) 12A (8/20µs)
- ♦ Protects one I/O line (bidirectional)
- ♦ Low clamping voltage
- ♦ Working voltages :15V
- ♦ Low leakage current
- ♦ Response Time is < 1 ns</p>

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

ORDERING INFORMATION

Device: SLESD3C151LPackage: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

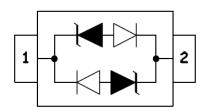
APPLICATIONS

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

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♦USB Interface

PIN CONFIGURATION



PACKAGE OUTLINE



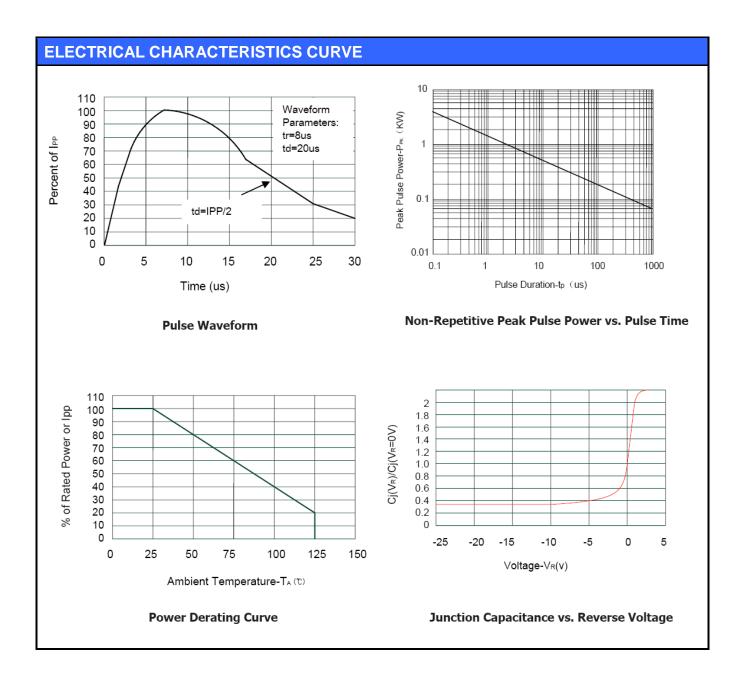


ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV			
P _{PP}	Peak Pulse Power (8/20µs)	350	W			
T _{OPT}	Operating Temperature	-55/+150	°C			
T_{STG}	Storage Temperature	-55/+150	°C			
T_L	Lead Soldering Temperature	260	°C			

ELECTRICAL CHARACTERISTICS (Tamb=25°C)										
PART NUMBER	DEVICE MARKIN G	V_{RWM}	V _B @1mA	V _C @1A	V _C @I	рр	V _C @) lpp	I_R	C_{T}
		(V)	(V)	(V)	(V) (V)		(μA)	(pF)		
		Max	Min	Max	Max	lp p (A	Max	lpp (A)	Ma x	Тур.
SLESD3C151L	EC	15.0	16.7	24.0	29.0	5	31.8	10	1	0.8

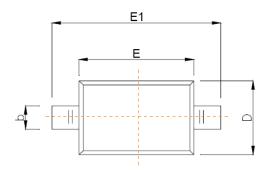
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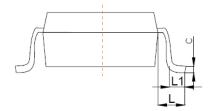


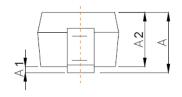




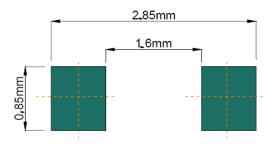
SOD-323 PACKAGE OUTLINE DIMENSIONS







Symbol	Dimensions In Millimeters			
Symbol	Min	Max		
Α		1.00		
A1	0.000	0.100		
A2	0.800	0.900		
b	0.250	0.350		
С	0.080	0.150		
D	1.200	1.400		
Е	1.600	1.800		
E1	2.500	2.700		
е	1.800	2.040		
L	0.475 REF			
L1	0.250	0.400		
θ	0°	8°		



Recommended Pad outline