

±15kV (Air)

Transient Voltage Suppressors for ESD protection

♦IEC61000-4-2 (ESD) ±8kV (Contact),

♦Peak power dissipation: 60W (8/20µs)

♦IEC61000-4-4 (EFT) 40A (5/50ηs)

DESCRIPTION

The LESD3Z5.0C is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium.

This device has been specifically designed to protect sensitive components which are connected to data and transmission lines from overvoltage caused by ESD (electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

MACHANICAL DATA

♦Protects one I/O line

♦Low clamping voltage

♦ Working voltages : 5V

♦Low leakage current

♦SOD-323 package

FEATURES

- →Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- ♦ Packaging: Tape and Reel
- ♦Reel size: 7 inch

ORDERING INFORMATION

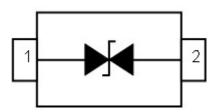
Device: LESD3Z5.0C
Package: SOD-323
Marking: 3M or AC
Material: Halogen free
Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

APPLICATIONS

- ♦ High Speed Line: USB1.0/2.0, VGA, DVI, SDI,
- ♦ Serial and Parallel Ports
- ♦ Notebooks, Desktops, Servers
- ♦ Projection TV
- ♦ Cellular handsets and accessories
- ♦Portable instrumentation
- ♦Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE





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ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV			
P _{PP}	Peak Pulse Power (8/20µs)	60	W			
T _{OPT}	Operating Temperature	-55~150	°C			
T _{STG}	Storage Temperature	-55~150	°C			

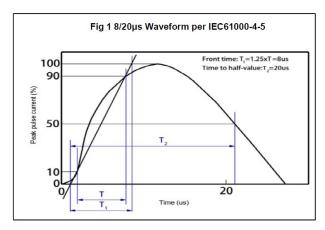
ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
Symbol	Parameter	Test Condition	Min	Тур	Max	Units		
V _{RWM}	Reverse Working Voltage				5.0	V		
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6		7.8	V		
I _R	Reverse Leakage Current	$V_{RWM} = 5V$			1.0	μA		
V _C	Clamping Voltage	$I_{PP} = 5A, t_p = 8/20 \mu s$			12.0	V		
CJ	Junction Capacitance	V _R = 0V, f = 1MHz			18	pF		

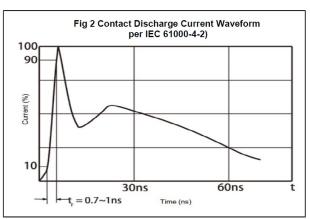
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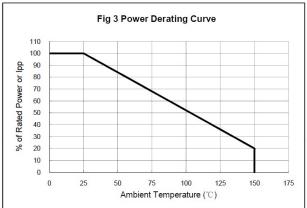


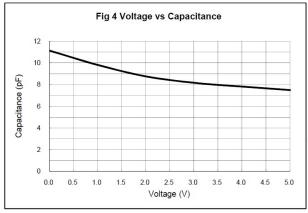
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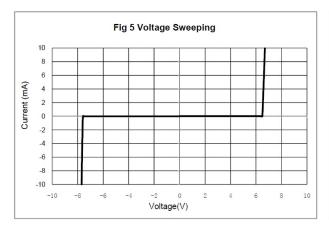
ELECTRICAL CHARACTERISTICS CURVE

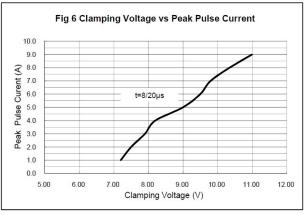








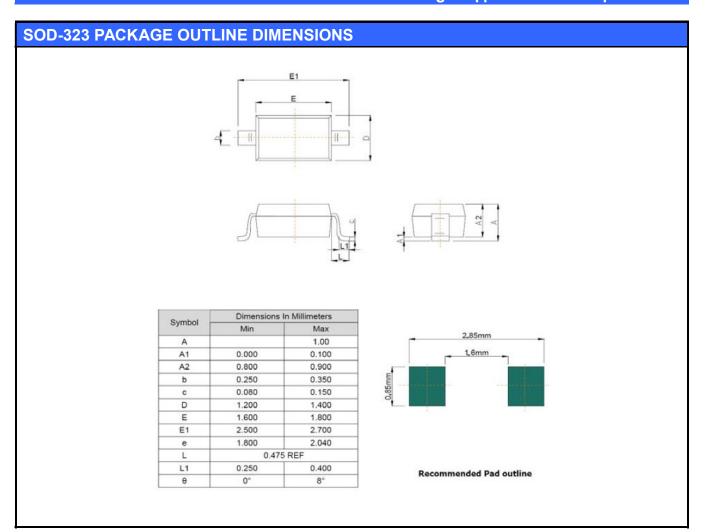




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