















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	LESD5Z5.0CT1G
Overseas Part Number	LESD5Z5.0CT1G
▶ Equivalent Part Number	LESD5Z5.0CT1G



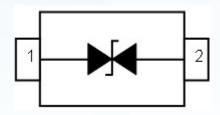


DESCRIPTION

The LESD5Z5.0CT1G 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).

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



FEATURES

- IEC61000-4-2 (ESD) ±30kV (Contact), ±30kV (Air)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- Peak power dissipation: 75W (8/20µs)
- Protects one I/O line
- Low clamping voltage
- Working voltages : 5V
- Low leakage current

MACHANICAL DATA

- SOD-523 package
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- Packaging: Tape and Reel
- Reel size: 7 inch
- MSL3



ABSOLUTE MAXIMUM RATING

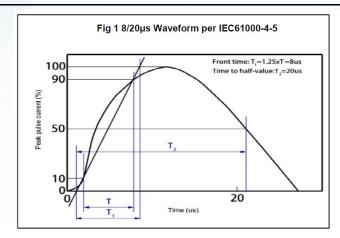
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV
P _{PP}	Peak Pulse Power (8/20μs)	75	W
T _{OPT}	Operating Temperature	-40~150	°C
T _{STG} Storage Temperature		-40~150	°C

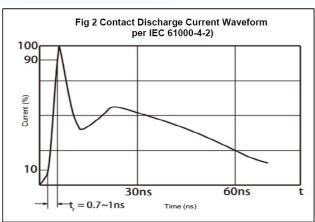
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

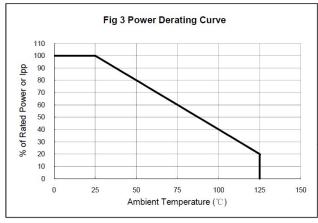
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V_{RWM}	Reverse Working Voltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6		9.0	V
I _R	Reverse Leakage Current	V _{RWM} = 5V			1.0	μΑ
V _C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			9.5	V
V _C	Clamping Voltage	$I_{PPmax} = 5A$, $t_p = 8/20 \mu s$			15.0	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz			15	pF

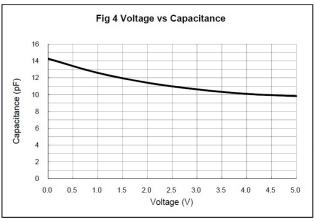


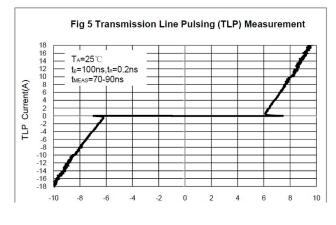
ELECTRICAL CHARACTERISTICS CURVE

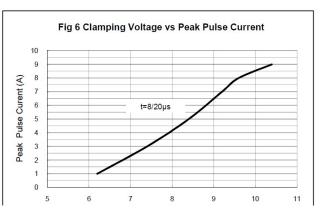






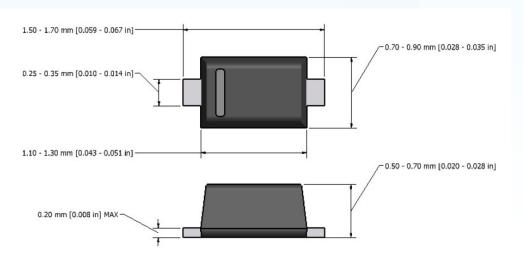




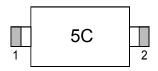




SOD-523 PACKAGE OUTLINE DIMENSIONS



Marking



Ordering information

Order code	Package	Base qty	Delivery mode
LESD5Z5.0CT1G	SOD-523	3000	Tape and reel



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