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SEMICONDUCTOR



ESD



TVS



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MOV



GDT



PLED

CESDBLC5V0D3-MS

Product specification

FEATURES

- IEC61000-4-2 (ESD) ±8kV (Contact), ±15kV (Air)
- IEC61000-4-4 (EFT) 40A (5/50ns)
Peak power dissipation: 60W (8/20µs)
- Protects one I/O line
- Low clamping voltage
- Working voltages : 5V
- Low leakage current


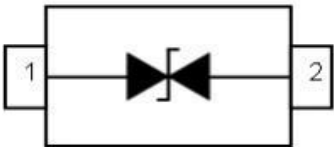

MACHANICAL DATA

- SOD-323 package
- Terminals: Tin plated, solderable per MIL-STD-750, method 2026
- Packaging: Tape and Reel
- Reel size: 7 inch

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

Reference News

PACKAGE OUTLINE	PIN CONFIGURATION	Marking
		
<p>SOD-323</p>		

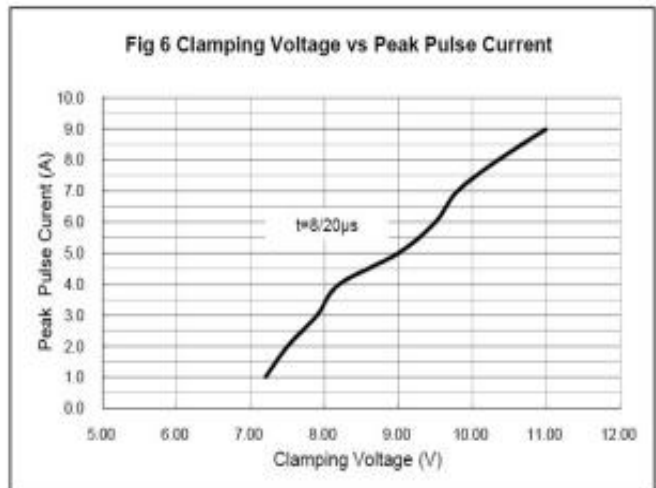
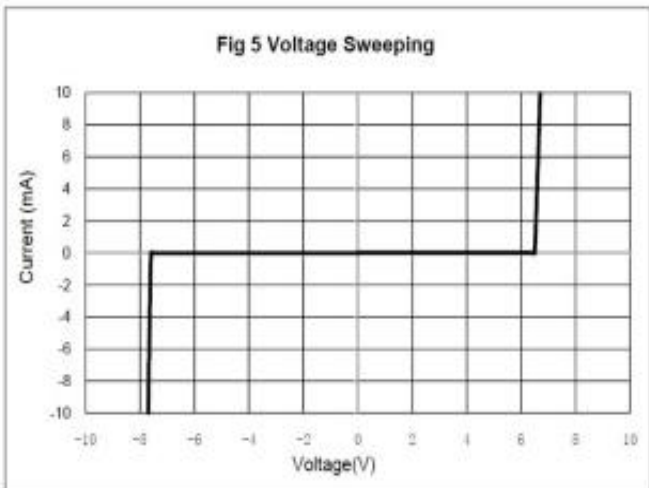
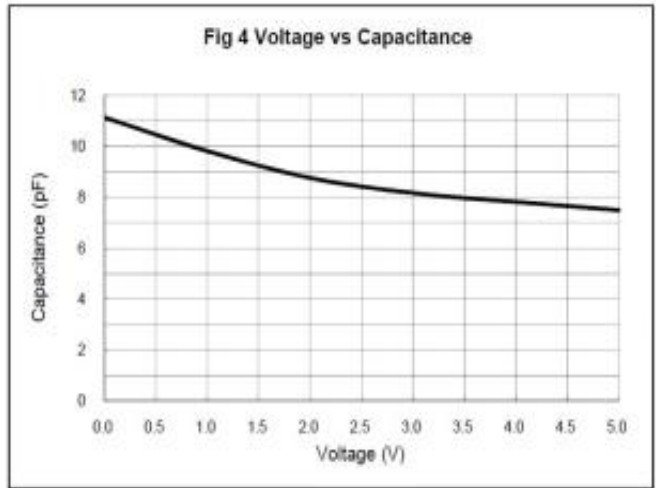
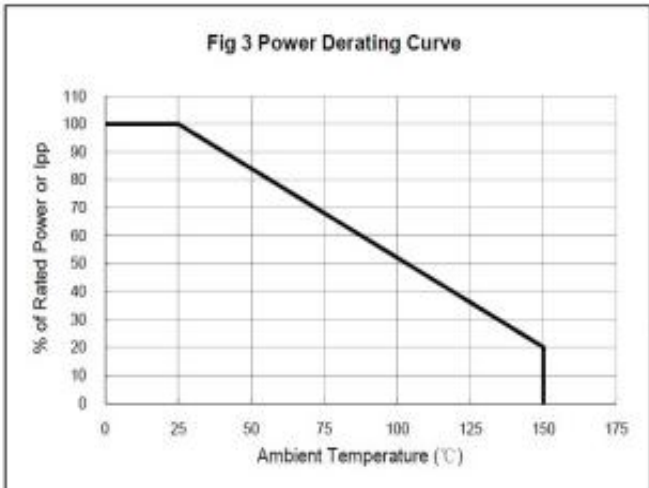
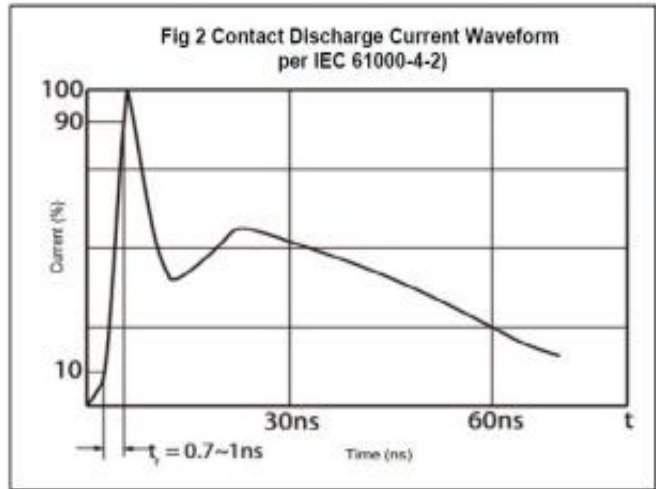
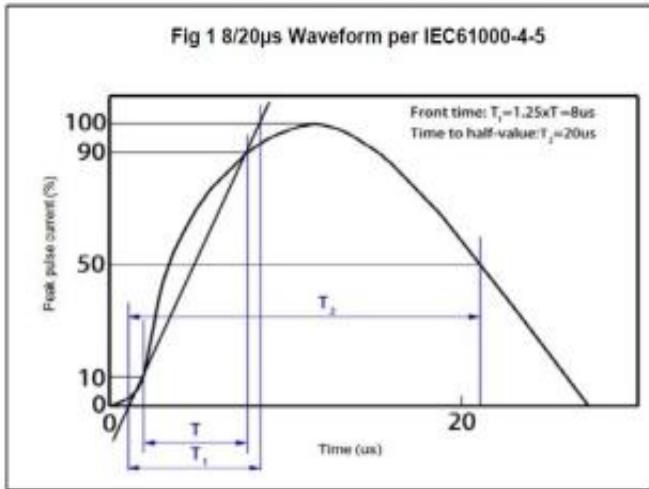
ABSOLUTE MAXIMUM RATING

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

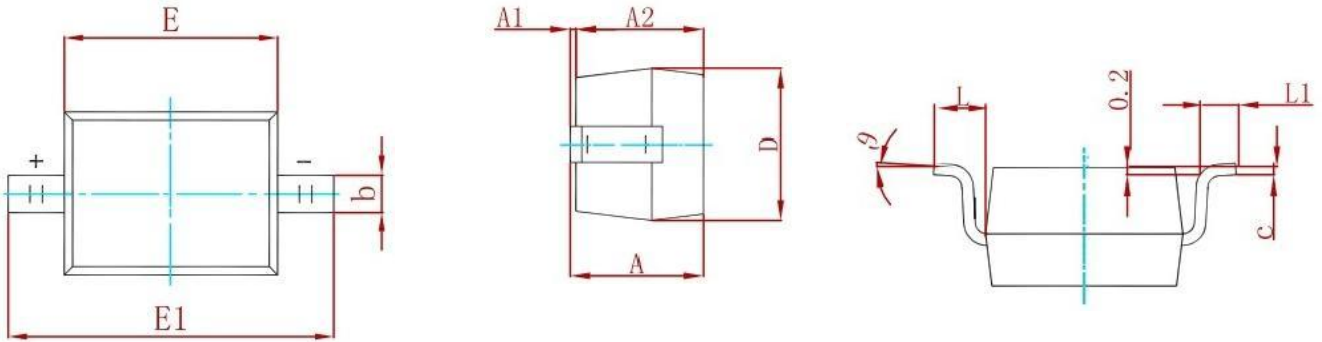
ELECTRICAL CHARACTERISTICS (T_{amb}=25°C)

Symbol	Parameter	Test Condition	Min	Typ	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	Voltage	I _{PP} = 5A, t _p = 8/20μs			12.0	V
C _J	Junction Capacitance	V _R = 0V, f = 1MHz			18	pF

ELECTRICAL CHARACTERISTICS CURVE

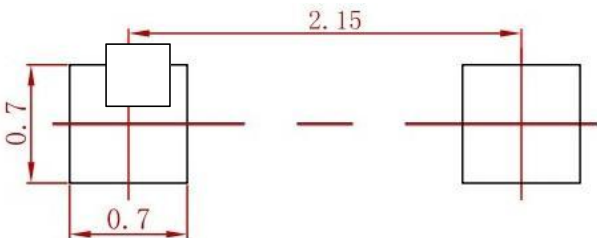


PACKAGE MECHANICAL DATA



Symbol	Dimensions in Millimeters		Dimensions in inches	
	Min	Max	Min.	Max
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°

Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
CESDBLC5V0D3-MS	SOD-323	3000

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