



Product data sheet

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FEATURES

±15kV (Air) Peak power dissipation: 35W (8/20µs) ♦Protects one I/O line ♦Low clamping voltage ♦Working voltage: 5V Low leakage current Low capacitance

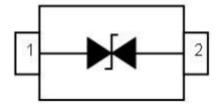
MACHANICAL DATA

SOD-523 package Terminals: Tin plated, solderable per MIL-STD-750, method 2026 Packaging: Tape and Reel ♦Reel size: 7 inch Weight: 0.0018 gram (approx.)

SOD-523

Marking: LB

PIN CONFIGURATION



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



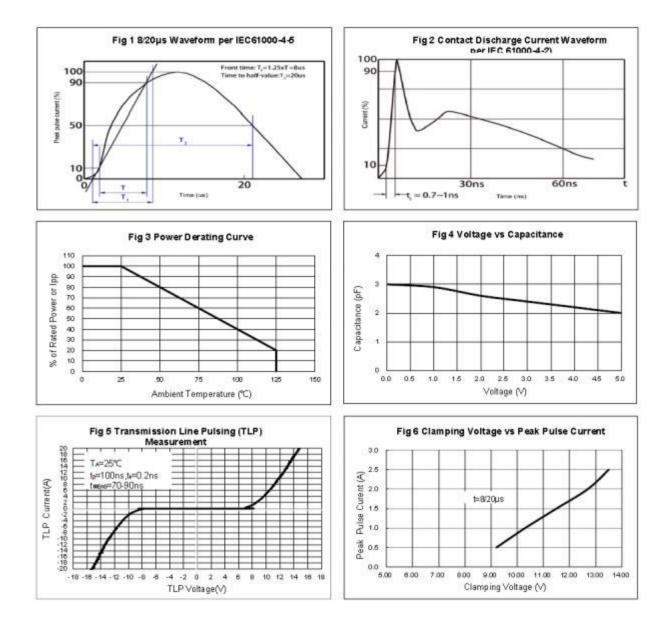
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter	Value	Units	
Vesd	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±8 ±15	kV	
Ррр	Peak Pulse Power (8/20µs)	35	W	
Торт	Operating Temperature	-55~150	OC	
Тѕтс	Storage Temperature	-55~150	OC	

ELECTRI	ICAL CHARACTERISTICS (Tamb=25C)					
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				5.0	V
Vbr	Reverse Breakdown Voltage	I⊤= 1mA	5.6		9.4	V
lr	Reverse Leakage Current	V _{RWM} = 5V			2.0	HΑ
Vc	Clamping Voltage	I _{PP} = 1A, t _p = 8/20μs			10.5	V
		IPP = 2A, t _P = 8/20μs			14.0	V
Vctlp	TLP Clamping Voltage	IPP = 16A IEC61000-4-2 Level 4 equivalent (±8kV Contact, ±15kV Air)		14.5		V
Rdyn	Dynamic Resistance	t⊵ = 100ns		0.3		Ω
С	Junction Capacitance	V _R = 0V, f = 1MHz		3.0	3.5	pF





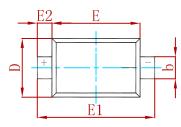
ELECTRICAL CHARACTERISTICS CURVE

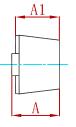


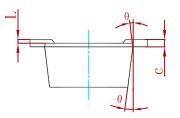




PACKAGE MECHANICAL DATA

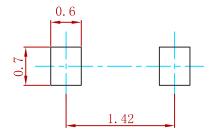






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

Suggested Pad Layout



Note: 1.Controlling dimension:in millimeters. 2.General tolerance:±0.05mm.

3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
ESD5B5CU	SOD-523	3000



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