MSKSEMI 美森科













MOV

ESD150B5FB

Product specification





FEATURES

IEC61000-4-2 (ESD) ±30kV (Contact),

±30kV (Air)

• IEC61000-4-4 (EFT) 40A (5/50ηs)

Peak power dissipation: 128W (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

MSL1

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
NEW THE PARTY OF T	2	B 5 ∞
SOD-523		



ABSOLUTE MAXIMUM RATING

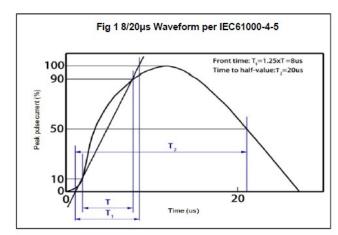
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	kV
P _{PP}	Peak Pulse Power (8/20µs)	128	W
T _{OPT}	Operating Temperature	-40~150	$^{\circ}$
T _{STG}	Storage Temperature	-40~150	$^{\circ}$ C

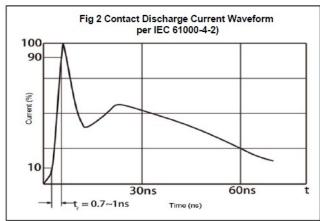
ELECTRICAL CHARACTERISTICS (Tamb=25℃)

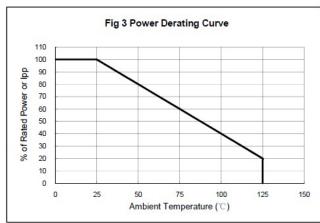
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6		9.0	V
I R	Reverse Leakage Current	V _{RWM} = 5V			0.1	μΑ
Vc	Clamping Voltage	$I_{PP} = 5A, t_p = 8/20 \mu s$			11.6	V
Vc	Clamping Voltage	$I_{PPmax} = 8A , t_p = 8/20 \mu s$			16.0	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz		10	15	pF

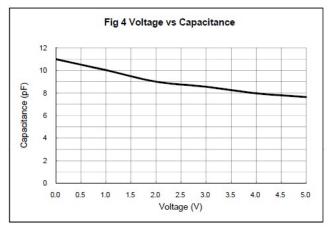


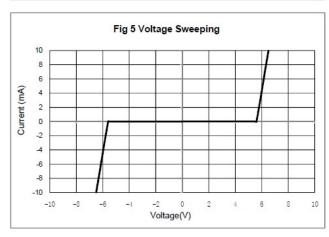
ELECTRICAL CHARACTERISTICS CURVE

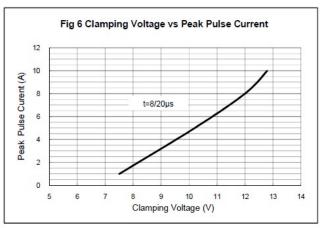






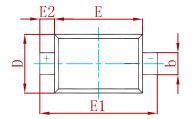


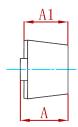


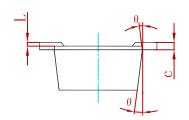




PACKAGE MECHANICAL DATA

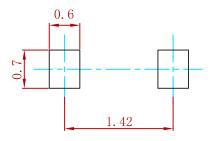






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200	REF	0.008	REF
L	0.010	0.070	0.001	0.003
θ	7° I	REF	7° F	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
ESD150B5FB	SOD-523	3000



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