MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

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
SOD-523	1 2	B5 ∞



ABSOLUTE MAXIMUM RATING

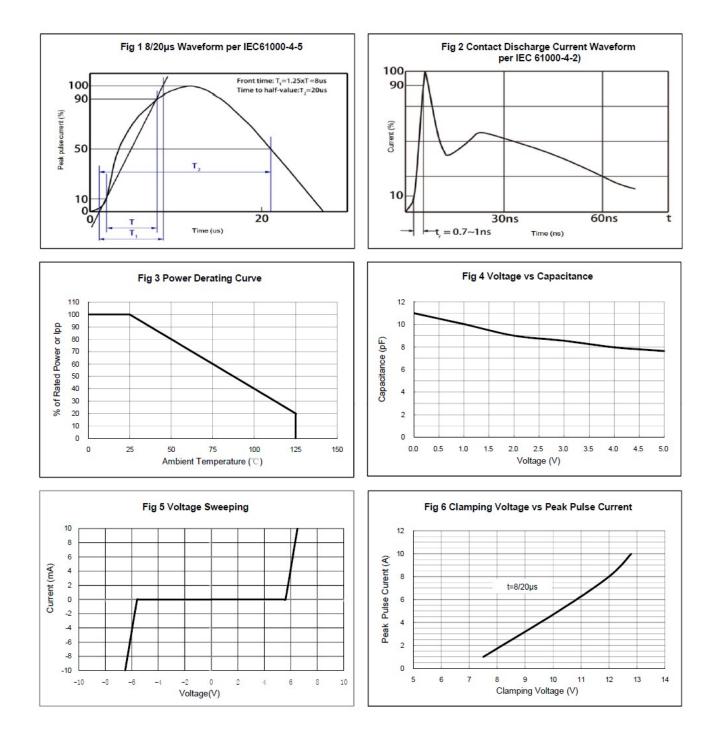
Symbol	Parameter	Value	Units	
	ESD per IEC 61000-4-2 (Contact)	±30		
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	kV	
P _{PP}	Peak Pulse Power (8/20µs) 128		W	
Т _{орт}	Operating Temperature	rating Temperature -40~150 °C		
T _{STG} Storage Temperature -40~150		°C		

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	Η _τ = 1mA	5.6		9.0	V
l _R	Reverse Leakage Current	V _{RWM} = 5V			0.1	μA
Vc	Clamping Voltage	I _{PP} = 5A, t _p = 8/20μs			11.6	V
Vc	Clamping Voltage	$I_{PPmax} = 8A$, $t_p = 8/20\mu s$			16.0	V
CJ	Junction Capacitance	V _R = 0V, f = 1MHz		10	15	pF

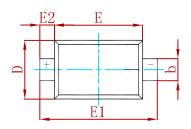


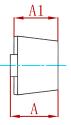
ELECTRICAL CHARACTERISTICS CURVE

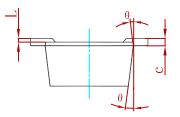




PACKAGE MECHANICAL DATA

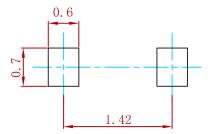






Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.510	0.770	0.020	0.031	
A1	0.500	0.700	0.020	0.028	
b	0.250	0.350	0.010	0.014	
С	0.080	0.150	0.003	0.006	
D	0.750	0.850	0.030	0.033	
E	1.100	1.300	0.043	0.051	
E1	1.500	1.700	0.059	0.067	
E2	0.200 REF		0.008 REF		
L	0.010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



ESD150B5FB

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