MSKSEMI















ESD

TVS

TSS

MOV

GDT

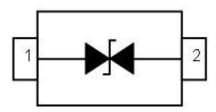
PLED

Broduct data sheet

FEATURES

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





SOD-523

MACHANICAL DATA

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

APPLICATIONS

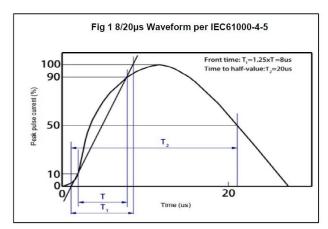
- ♦ High Speed Line :USB1.0/2.0, VGA, DVI, SDI,
- ♦ Serial and Parallel Ports
- ♦ Notebooks, Desktops, Servers
- ♦ Projection TV
- ♦ Cellular handsets and accessories
- ♦ Portable instrumentation
- ♦ Peripherals

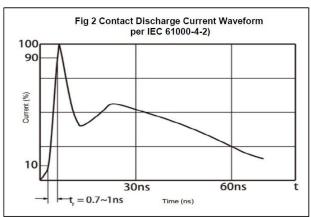
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter	Value	Units	
\/	ESD per IEC 61000-4-2 (Contact)	(Contact) ±30 kV		
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	ΚV	
P_PP	Peak Pulse Power (8/20µs)	75	W	
T_OPT	Operating Temperature	-40~150	°C	
T _{STG}	Storage Temperature	-40~150	°C	

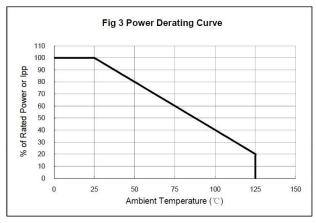


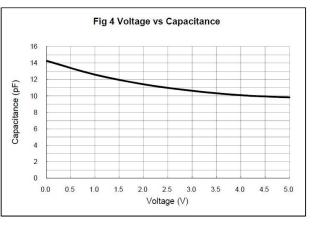
ELECTRICAL CHARACTERISTICS (Tamb=25°C)						
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	5.6		9.0	V
I _R	Reverse Leakage Current	V _{RWM} = 5V			1.0	μΑ
Vc	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			9.5	V
Vc	Clamping Voltage	$I_{PPmax} = 5A$, $t_p = 8/20 \mu s$			15.0	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz			15	pF

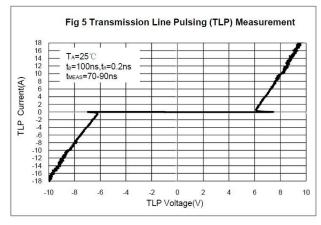
ELECTRICAL CHARACTERISTICS CURVE

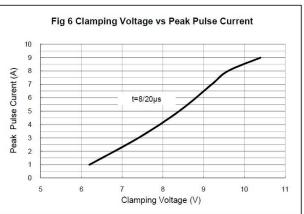












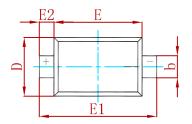


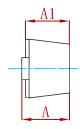


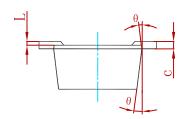




PACKAGE MECHANICAL DATA

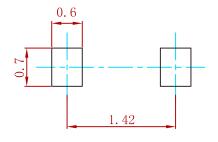






Symbol	Dimensions In Millimeters		Dimensions In Inches	
Symbol	Min	Max	Min	Max
Α	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
С	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200	REF	300.0	REF
L	0.010	0.070	0.001	0.003
θ	7° F	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
ESD5B5.0ST1G	SOD-523	3000









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