MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

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FEATURES

♦ Transient protection for high-speed data lines IEC 61000-4-2 (ESD) ±20kV (Contact) ±20kV (Air)

IEC 61000-4-4 (EFT) 40A (5/50 ns) Cable Discharge Event (CDE)

- ♦ Package optimized for high-speed lines
- ♦ Ultra-small package (1.0mm×0.6mm×0.5mm)
- Protects one data, control line
- ♦ Low capacitance: 0.5pF (Typical)
- ♦ Low leakage current
- ♦ Low clamping voltage

MACHANICAL DATA

- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranteed: 260°C/10s
- ♦ Reel size: 7 inch

PIN CONFIGURATION

DFN1006-2

APPLICATIONS

- ♦ Serial ATA
- ♦ Desktops, Servers and Notebooks
- ♦ Cellular Phones
- ♦ MDDI Ports
- ♦ USB Data Line Protection
- ♦ Display Ports



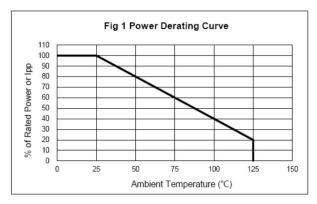
Semiconductor C

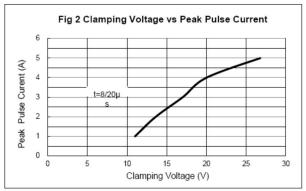
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter	Value	Units	
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±20 ±20	kV	
P _{PP}	Peak Pulse Power (8/20µs)	100	W	
Торт	Operating Temperature	-55~125	°C	
T _{STG}	Storage Temperature	-55~150	°C	

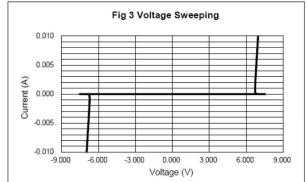
Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				5.0	V
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	6.0			V
I _R	Reverse Leakage Current	V _{RWM} = 5V			100	nA
V _C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			13	V
		$I_{PP} = 4A, t_p = 8/20 \mu s$			25	V
Сл	Junction Capacitance	V _R = 0V, f = 1MHz		0.5		pF

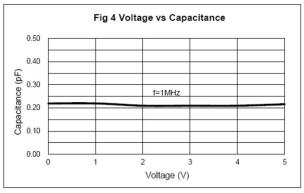


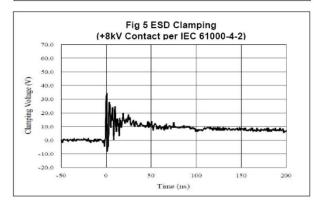
ELECTRICAL CHARACTERISTICS CURVE

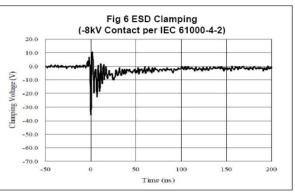


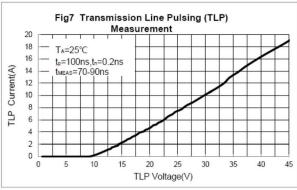






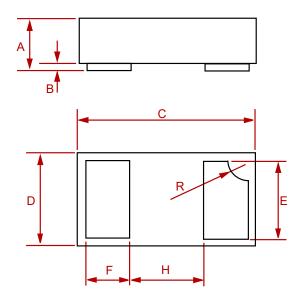






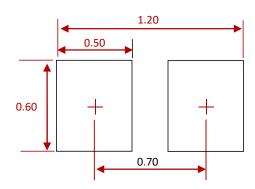
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PACKAGE MECHANICAL DATA



Dim	Inches		Millimeters		
	MIN	MAX	MIN	MAX	
Α	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
Е	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.01	5Тур.	0.40	Тур.	
R	0.001	0.005	0.05	0.15	

Suggested Pad Layout



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
ESD05V88D-MS	DFN1006-2	10000





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