













ESD

TVS

TSS

MOV

GDT

PLED



Product specification





Features

- Transient protection for high-speed data lines
- IEC 61000-4-2 (ESD) ±30kV (Contact)

±30kV (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×0.4mm)
- Protects one data, control or power line
- Low capacitance
- Low leakage current
- Low clamping voltage
- Each I/O pin can withstand over 1000 ESD

MACHANICAL DATA

- DFN1006-2 package
- Flammability Rating: UL 94V-0
- High temperature soldering guaranteed: 260°C/10s
- Packaging: Tape and Reel ◇Reel size: 7 inch
- MSL1

APPLICATIONS

- Portable Electronics
- Desktops, Servers and Notebooks
- Cellular Phones
- MP3 Ports
- Digital Ports
- Subscriber Identity Module (SIM) card

Reference News

PACKAGE OUTLINE	Bi-directional	Marking
		PB
DFN1006-2		



ABSOLUTE MAXIMUM RATING

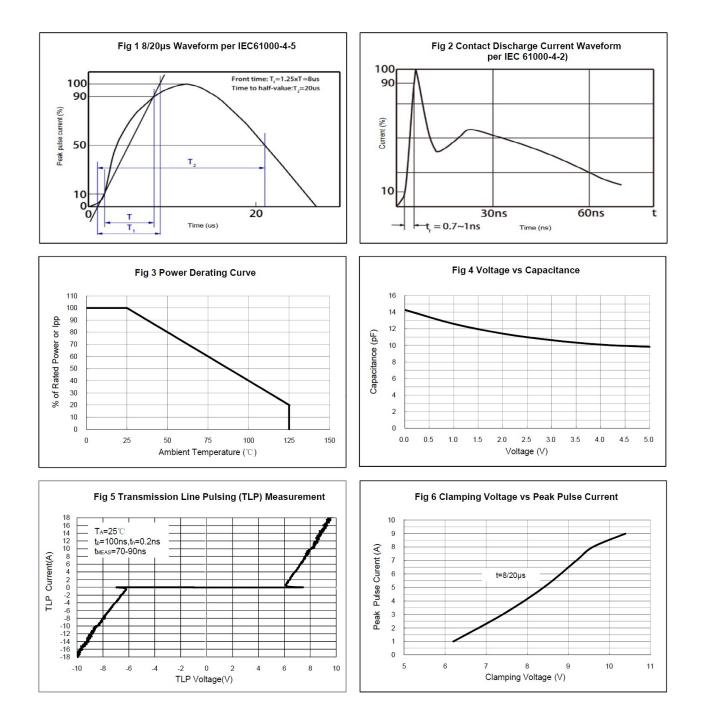
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±30 ±30	KV
P _{PP}	Peak Pulse Power (8/20µs)	60	W
I _{PP}	Peak Pulse Current (8/20µs)	5	A
Tj	Operating Temperature	-55/+125	Ĉ
T _{STG}	Storage Temperature	-55/+150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C)

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Stand-Off Voltage				5.0	V
V _{BR}	Reverse Breakdown voltage	h=1mA	5.6			V
I _R	Reverse leakage current.	V _{RWM} =5V			1	μA
Vc	Clamping Voltage	I _{PP} =1A, t _P =8/20us I _{PP} =5A, t _P =8/20us			9.5 12	V
CJ	Junction Capacitance	V _R =0V,f=1MHz			15	pF



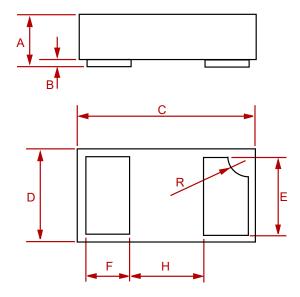
ELECTRICAL CHARACTERISTICS CURVE



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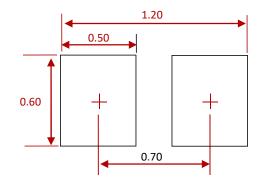


PACKAGEMECHANICALDATA



Dim	Inches		Millimeters		
Dim	MIN	MAX	MIN	МАХ	
А	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	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
н	0.015Typ.		0.40	Тур.	
R	0.001	0.005	0.05	0.15	

Suggested PadLayout



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.

REELSPECIFICATION

P/N	PKG	QTY
MSESD10EMC05	DFN1006-2	10000



MSESD10EMC05

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