MSKSEMI 美森科













ESD

15

TSS

MOV

GDT

PIFD

D24V0L1B2LPS-7B

Product specification





Features

- IEC61000-4-2 (ESD) ±8kV (Contact)
- ±15kV (Air)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- IEC61000-4-5 (Lighting) 3A(8/20µs)
- 100 Watts Peak Pulse Power (tp=8/20µs)
- Working voltages: 24V
- Low clamping voltage
- Low leakage current

Applications

- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV
- Cellular handsets and accessories
- Portable instrumentation
- Peripherals

Mechanical Characteristics

DFN1006 package

Flammability Rating: UL 94V-0

Packaging: Tape and Reel

Reel size: 7 inch

Reference News

PACKAGE OUTLINE	Circuit Diagram	Marking
		DH
DFN1006		



ABSOLUTE MAXIMUM RATING

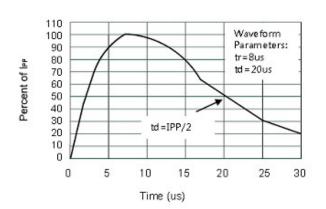
Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	±8 ±15	kV
P _{PP}	Peak Pulse Power (8/20μs)	150	W
T _{OPT}	Operating Temperature -55 ~ +125		$^{\circ}\!\mathrm{C}$
T _{STG}	Storage Temperature -55 ~ +150		°C
TL	Lead Soldering Temperature 260 (10 sec.)		${\mathbb C}$

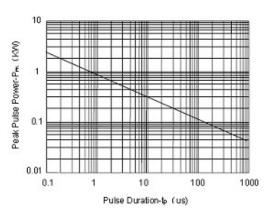
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{RWM}	Reverse Working Voltage				24	V
V _{BR}	Reverse Breakdown Voltage	l⊤ = 1mA	26		32	V
I _R	Reverse Leakage Current	V _{RWM} = 24V			1	μA
V _{C1}	Clamping Voltage 1	$I_{PP} = 1A, t_p = 8/20 \mu s$			40	V
V_{C2}	Clamping Voltage 2	$I_{PP} = 3A, t_p = 8/20 \mu s$			50	V
С	Junction Capacitance	V _R = 0V, f = 1MHz		8	15	pF



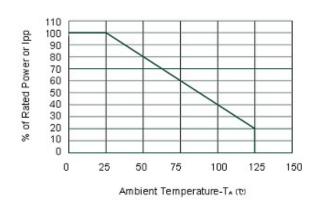
ELECTRICAL CHARACTERISTICS CURVE





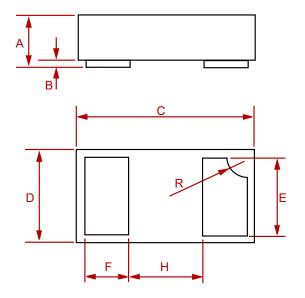
Pulse Waveform

Non-Repetitive Peak Pulse Power vs. Pulse Time



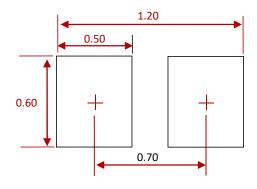


PACKAGE MECHANICAL DATA



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	
E	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
D24V0L1B2LPS-7B	DF1006	10000



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