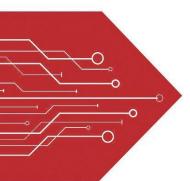
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Broduct data sheet

www.msksemi.com



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

MACHANICAL DATA

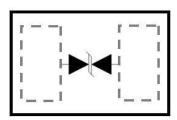
♦ DFN1006 package

♦ Flammability Rating: UL 94V-0

♦ Packaging: Tape and Reel

♦ Reel size: 7 inch

PIN CONFIGURATION



APPLICATIONS

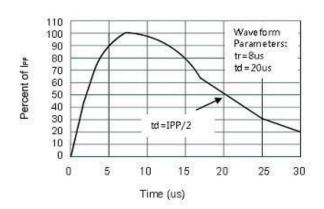
- ♦ Serial and Parallel Ports
- ♦ Notebooks, Desktops, Servers
- ♦ Projection TV
- ♦ Cellular handsets and accessories
- ♦ Portable instrumentation
- ♦ Peripherals

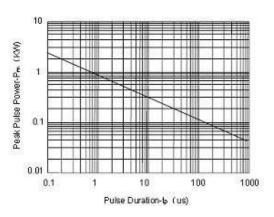
ABSOLUTE MAXIMUM RATING				
Symbol	Parameter	Value	Units	
V	ESD per IEC 61000-4-2 (Contact)	±8	kV	
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	K V	
P _{PP}	Peak Pulse Power (8/20µs)	150	W	
T _{OPT}	Operating Temperature	-55 ~ +125	°C	
T _{STG}	Storage Temperature	-55 ~ +150	°C	
TL	Lead Soldering Temperature	260 (10 sec.)	°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	I _T = 1mA	26		32	V
I _R	Reverse Leakage Current	$V_{RWM} = 24V$			1	μΑ
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
Сл	Junction Capacitance	V _R = 0V, f = 1MHz		8		pF

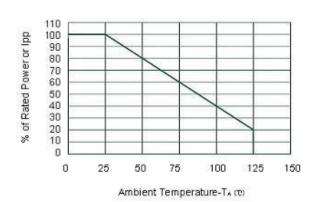
ELECTRICAL CHARACTERISTICS CURVE



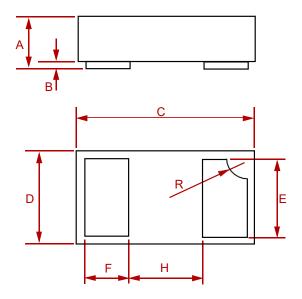


Pulse Waveform

 $Non\text{-}Repetitive\,Peak\,Pulse\,Power\,\,vs.\,\,Pulse\,\,Time$

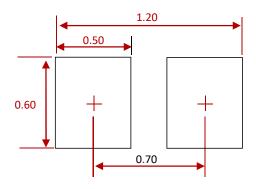


PACKAGE MECHANICAL DATA



Direc	Inches		Millimeters		
Dim	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
MSESD10EMC24	DFN1006	10000



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