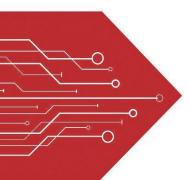
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com

Semiconductor

Compiance

Features

low Capacitance 10pF Low Clamping Voltage

Small Body Outline Dimensions: 0.039" x 0.024"

(1.0 mm x0.60 mm)

Low Body Height: 0.019" (0.5 mm)

Stand-off Voltage: 5.0V

Low Leakage

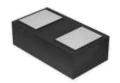
Response Time is Typically < 1 ns

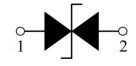
IEC61000-4-2 Level 4 ESD Protection for datalines

These are Pb-Free Devices

Pin Description

Schematic Diagram





Applications

10/100/1000 Mbits/s Ethernet

FireWire

Display ports

MDDI ports

Digital Visual Interface (DVI)

Cellular handsets & accessories

Computer and peripherals

DFN1006-2

Electrical Characteristics@ Ta=25°C unless otherwise

	VRWM @IR		VBR@ImA	Vc@1A	VC@IPP		CJ
P/N	V	μA	٧	V	V	Α	pF
		MAX	MIN	MAX	MAX		TYP
MSESD5451X	5	1	5.8	11	15	5	10

Maximum Rating @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units	
505	JEO 04000 4.0 (JDM E0D)	Contact	8	KV
ESD	IEC 61000-4-2 (HBM-ESD)	Air	15	ΝV
TL	Lead Soldering Temperature	260(10sec.)	${\mathbb C}$	
TJ	Operating Temperature	-55 to +125	${\mathbb C}$	
T _{STG}	Storage Temperature	-55 to +150	$^{\circ}$	

Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
I _T	Test Current
V _{BR}	Breakdown Voltage @ I⊤

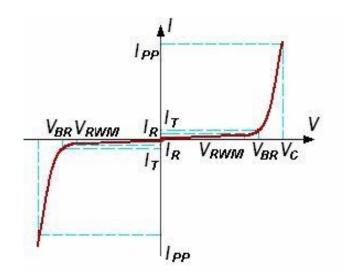


FIG1: Pulse Waveform

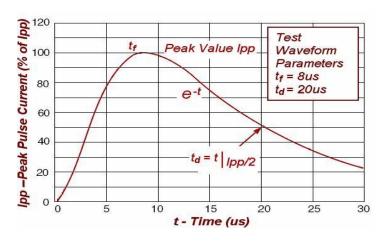
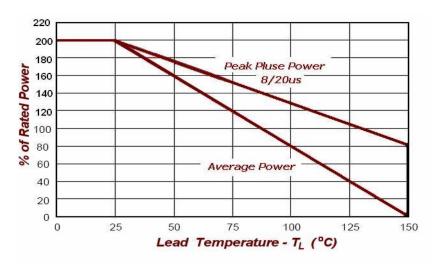
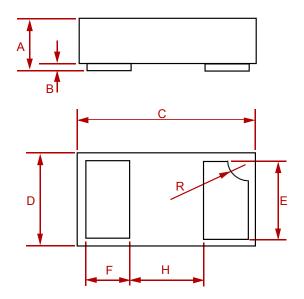


FIG2:Power Derating

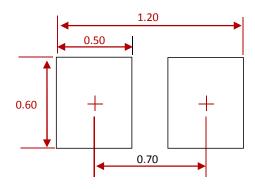


PACKAGE MECHANICAL DATA



Direc	Inc	hes	Millimeters		
Dim	MIN	MAX	MIN	MAX	
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.		0.40Тур.		
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
MSESD5451X	DFN1006-2	10000



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