MSKSEMI 美森科













ESD

TVS

TSS

MOV

GDT

PLED

ESD5431N

Product specification



FEATURES

- low Capacitance 15pF
- 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: 3.3V
- Low Leakage
- Response Time is Typically < 1 ns
- IEC61000-4-2 Level 4 ESD Protection for data lines
- These are Pb-Free Devices

Reference News

APPLICATIONS

- 10/100/Mbits/s Ethernet
- FireWire
- Display ports
- MDDI ports
- Digital Visual Interface (DVI)
- Cellular handsets & accessories
- Computer and peripherals

PACKAGE OUTLINE	PIN CONFIGURATION	Marking
DFN-1006	1 2	D1

Maximum Rating @ Ta=25℃ unless otherwise specified

Symbol	Parameter	Ratings	Units		
ESD	IEC 61000-4-2 (HBM-ESD)	Contact	25	KV	
ESD		Air	25		
T∟	Lead Soldering Temperature	260(10sec.)	C		
TJ	Operating Temperature	-55 to +125	C		
Тѕтс	Storage Temperature	-55 to +150	°C		

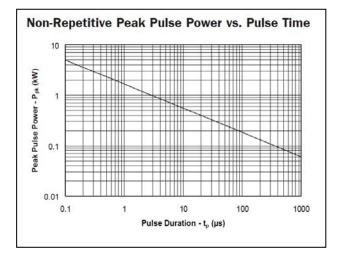
SEMICONDUCTOR

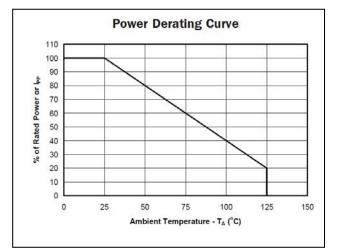


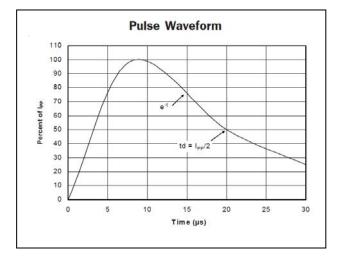
Electrical Characteristics@ Ta=25℃ unless otherwise

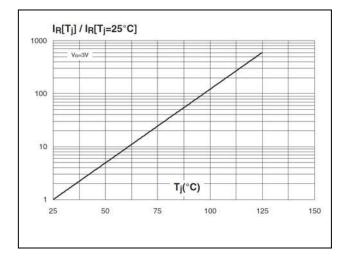
VR		м @IR	VBR@ImA	Vc@1A	Vc@)IPP	Сл
P/N	V	μA	V	V	V	Α	pF
		MAX	MIN	MAX	MAX		ТҮР
ESD5431N	3.3	1	5.0	7	10	8	15

Typical Characteristics@ Ta=25℃ unless otherwise specified



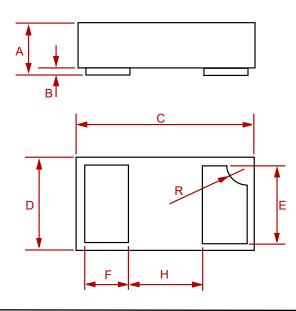






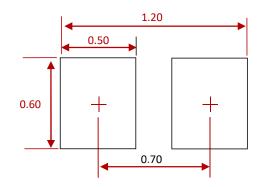


PACKAGEMECHANICALDATA



Dim	Inc	hes	Millimeters		
Dim	MIN	MAX	MIN	МАХ	
A	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.

REELSPECIFICATION

P/N	PKG	QTY
ESD431N	DFN1006	10000



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