Leiditech

SDA2401P

UNIDIRECTIONAL TVS DIODE

Features

- 200 Watts Peak Pulse Power per Line (tp=8/20μs)
- Protects One Unirectional I/O Line
- Low clamping voltage
- Working voltages : 24V.
- Low leakage current
- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50 η s)

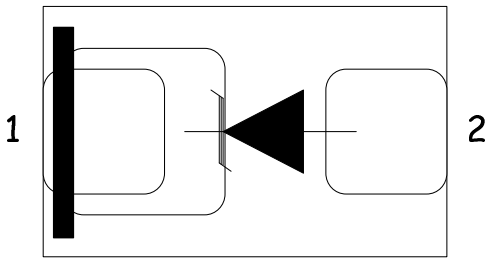
Dimensions DFN1006



Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- Pagers

Pin Configuration



Mechanical Characteristics

- DFN1006 (1.0x0.6x0.5mm) Package
- Molding Compound Flammability Rating : UL 94V-O
- Weight 0.5 Millgrams (Approximate)
- Quantity Per Reel : 5,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	200	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	±15	Kv
ESD per IEC 61000−4−2 (Contact)		±8	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

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Electrical Characteristics(TA=25°C unless otherwise specified)

Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
SDA2401P	YH	24	26.7	1	36	48	3	1	43

Characteristic Curves

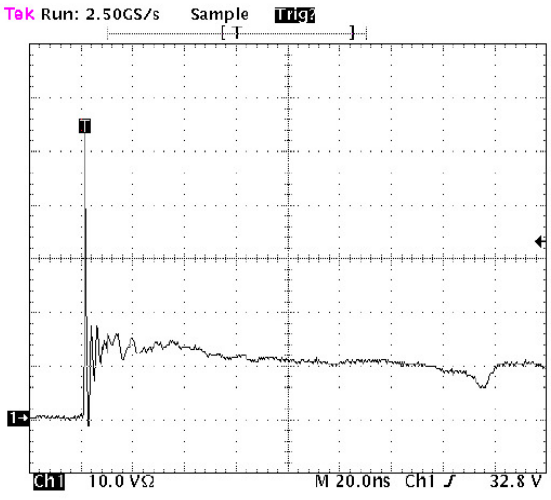


Figure 1. ESD Clamping Voltage Screenshot
Positive 8 kV Contact per IEC61000−4−2

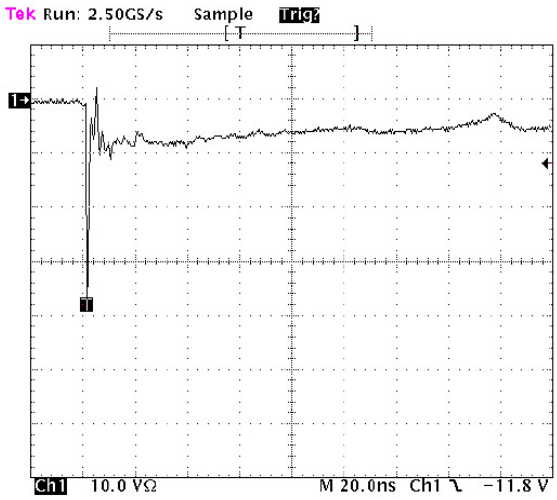
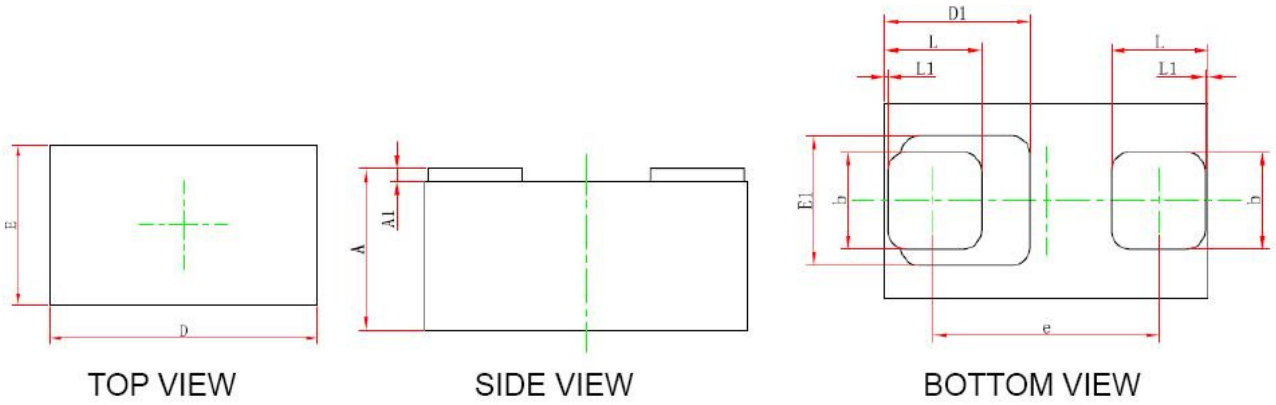


Figure 2. ESD Clamping Voltage Screenshot
Negative 8 kV Contact per IEC61000−4−2

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DNF1006 PACKAGE OUTLINE & DIMENSIONS

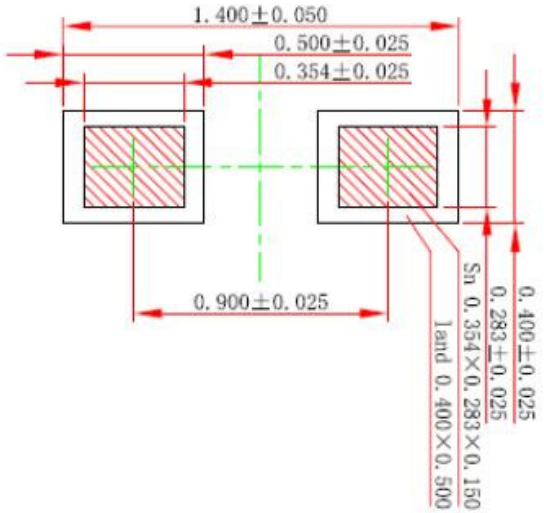


TOP VIEW SIDE VIEW BOTTOM VIEW

PACKAGE DIMENSIONS

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.450	0.550	0.018	0.022
A1	0.010	0.070	0.000	0.003
D	0.950	1.050	0.037	0.041
E	0.550	0.650	0.022	0.026
D1	0.450REF.		0.018REF.	
E1	0.400REF.		0.016REF.	
b	0.275	0.325	0.011	0.013
e	0.675	0.725	0.027	0.029
L	0.275	0.325	0.011	0.013
L1	0.010REF.		0.000REF.	

* SOLDERING FOOTPRINT



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