

ESD Diode

FEATURES

- ✧ 2-pin lead-less package
- ✧ Junction capacitance (Max value: 0.8pF)
- ✧ Peak Pulse Current (8/20 μ s): 5A
- ✧ IEC61000-4-2 (ESD) $\pm$ 25kV (air), $\pm$ 20kV (contact)
- ✧ Low clamping voltage
- ✧ Low leakage current
- ✧ Working voltages: 5V
- ✧ RoHS Compliant

ORDERING INFORMATION

- ✧ Device: SLESD5341N
- ✧ Package: DFN1006-2L
- ✧ Material: Halogen free and RoHS compliant
- ✧ Packing: Tape & Reel
- ✧ Quantity per reel: 10,000/PCS

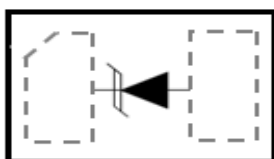
MACHANICAL DATA

- ✧ Package: DFN1006-2L
- ✧ Lead Finish: Matte Tin
- ✧ Case Material: "Green" Molding Compound.
- ✧ UL Flammability Classification Rating 94V-0
- ✧ Moisture Sensitivity: Level 1 per J-STD-020
- ✧ Tape Reel : 10000pcs

APPLICATIONS

- ✧ Cellular Handsets and Accessories
- ✧ Personal Digital Assistants
- ✧ Notebooks and Handhelds
- ✧ Portable Instrumentation, Digital Cameras
- ✧ Peripherals Audio Players Industrial Equipment

PIN CONFIGURATION



PACKAGE OUTLINE



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

Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	± 25 ± 20	kV
P_{PP}	Peak Pulse Power (8/20 μ s)	55	W
I_{PP}	Peak Pulse Current	5	A
T_j	Lead Soldering Temperature	-55/+125	°C
T_{STG}	Storage Temperature	-55/+150	°C

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

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_{RWM}	Reverse Stand-Off Voltage				5.0	V
V_{BR}	Reverse Breakdown voltage	$I_T=1mA$	5.6		9.0	V
I_R	Reverse leakage current.	$V_{RWM}=5V$			0.2	μA
V_C	Clamping Voltage	$I_{PP}=1A, t_P=8/20\mu s$			10.0	V
		$I_{PP}=5A, t_P=8/20\mu s$		14.0	16.0	
CJ	Junction Capacitance	$V_R=0V, f=1MHz$			0.8	PF

Typical Performance Characteristics (TA=25°C unless otherwise Specified)

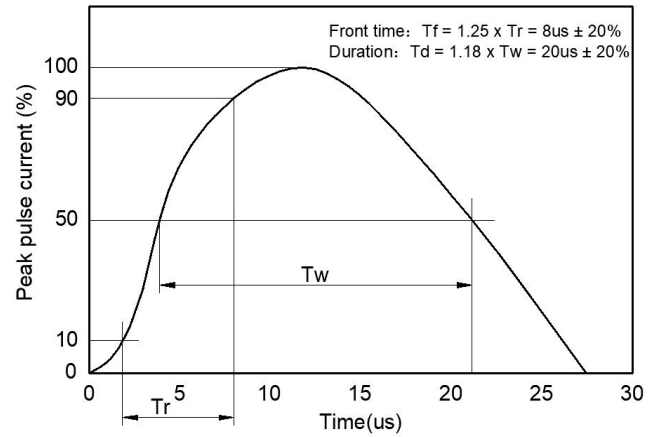
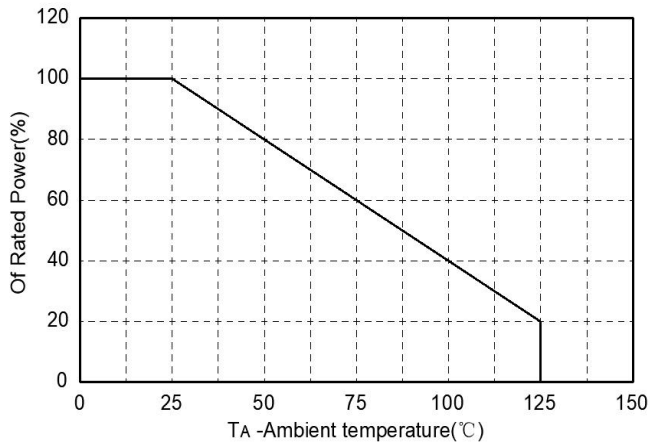


FIG3: Capacitance between terminals characteristics

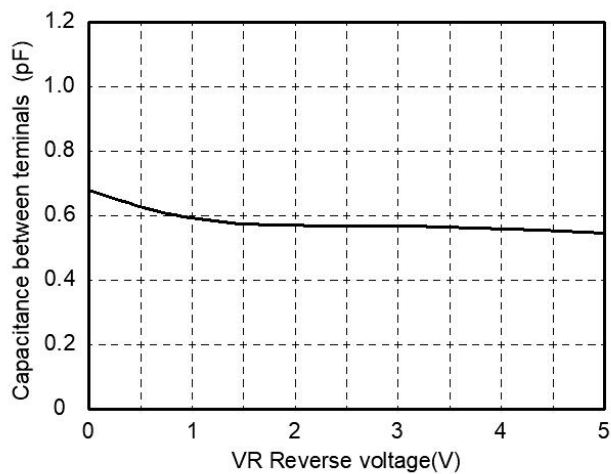
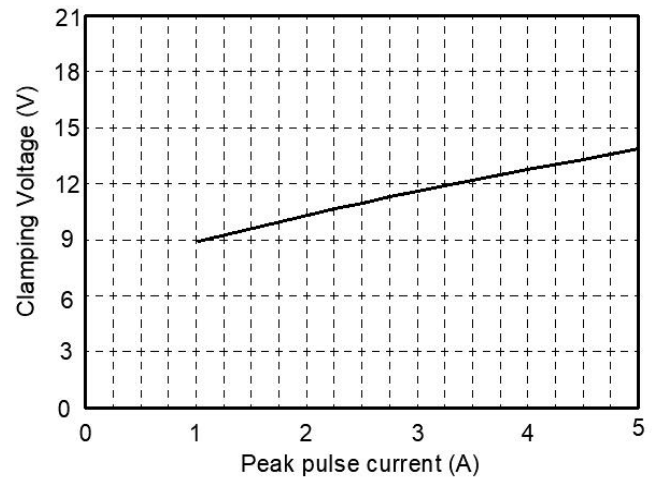
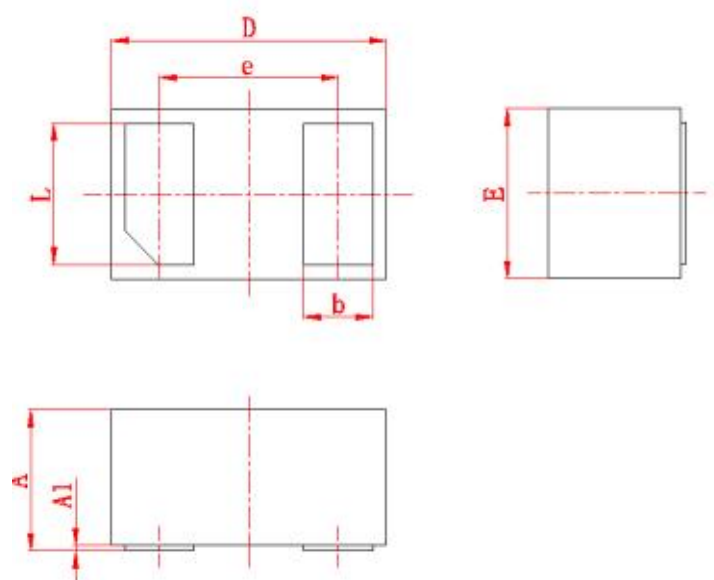
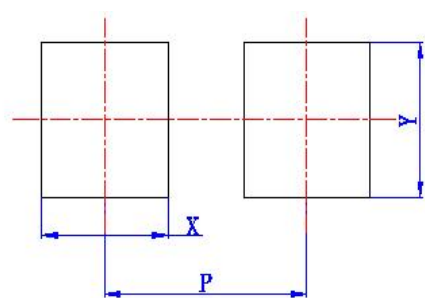


FIG4: Clamping Voltage vs. Peak Pulse Current



PACKAGE OUTLINE DIMENSIONS


Symbol	Dimension in Millimeters	
	min	max
A	0.4	0.5
A1	0	0.05
D	0.9	1.1
E	0.55	0.65
e	(0.65)	
b	0.2	0.3
L	0.34	0.55



Symbol	Dimension in Millimeters	
	typ	
X	(0.5)	
Y	(0.7)	
P	(0.8)	