

Product Specification

1. Features

- Replacement for MLV (0402)
- Protects I/O Port
- The peak pulse current per line ($t_P = 8/20\text{ps}$) can reach 5(A).
- Response Time is $<1\text{ ns}$
- Meets MSL 1 Requirements
- ROHS compliant
- IEC61000-4-2(ESD) : over or equal $\pm 30\text{KV}(\text{air})$, over or equal $\pm 25\text{KV}(\text{contact})$
- Stand-off Voltage: 5V

2. Pin Description



3. Applications

- Serial and Parallel Ports
- Notebooks, Desktops, Servers
- Projection TV
- Cellular handsets and accessories
- Portable instrumentation
- 10/100/1000 Mb/s Ethernet
- Digital Visual Interface (DVI)

4. Package Information

Type	Package	Size (mm)	Delivery Form	Delivery Quantity
SLESD0501L	DFN1006	1.00x0.60x0.45	7" T&R	10,000

5. Limiting Values(TA = 25 °C, unless otherwise specified)

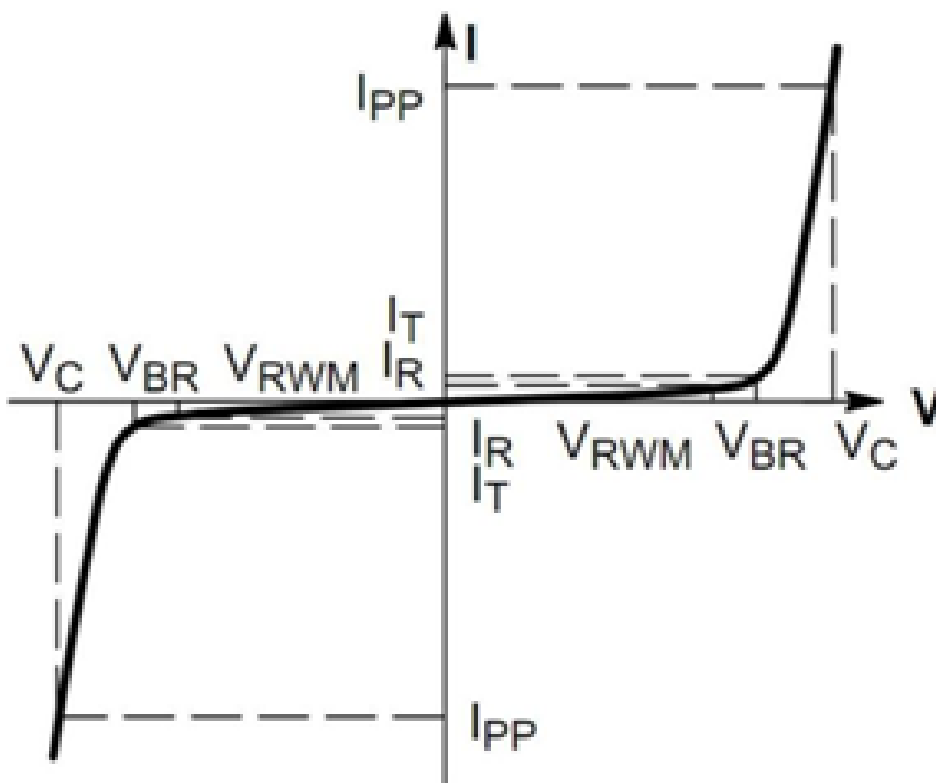
Symbol	Parameter		Ratings	Units
ESD	IEC 61000-4-2 (HBM-ESD)	Contact	±25	KV
		Air	±30	
T _L	Lead Soldering Temperature		260	°C
T _J	Operating Temperature		-55 to +125	°C
T _{STG}	Storage Temperature		-55 to +150	°C

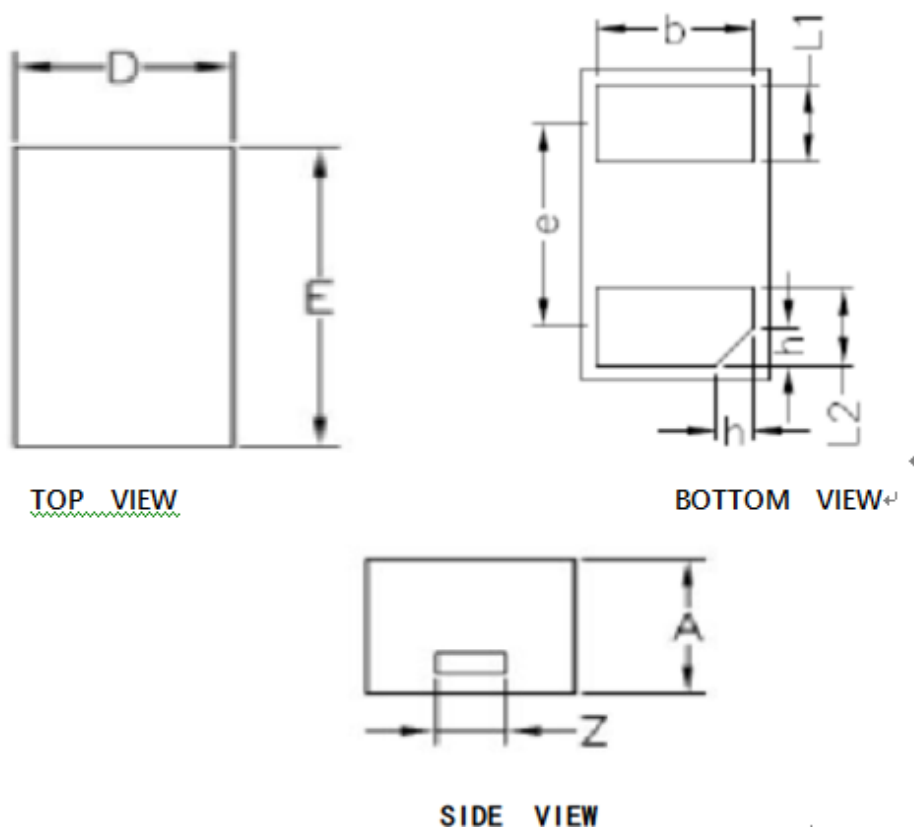
6. Electrical Characteristics(TA = 25 °C unless otherwise specified)

Symbol	Parameter	Conditions Between I/O and GND	Min.	Typ.	Max.	Units
V _{RWM}	Reverse Working Voltage				5	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA,	6	7.5	9	v
I _R	Reverse Leakage Current	V _{RWM} = 24V		0.1	1	uA
V _C	Clamping Voltage	I _{PP} = 1A, t _p = 8/20uS			10	V
C _J	Junction Capacitance	V _R = 0V, f = 1MHz		0.7	0.9	pF

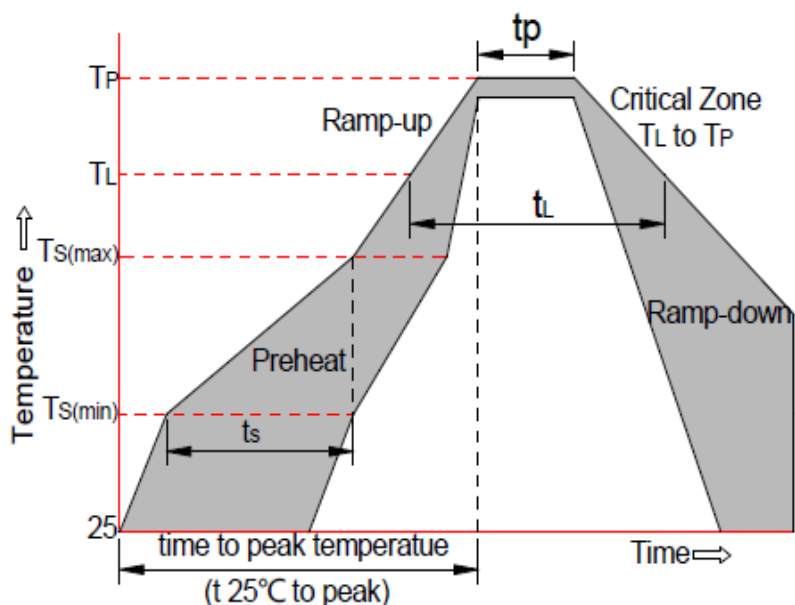
7. Typical Characteristics

Fig.1 V-I Characteristics for Bidirectional Diode



8. Package Dimension


Symbol	Dimensions In Millimeters		
	Min	Nom	Max
D	0.55	0.60	0.65
E	0.95	1.00	1.05
b	0.40	0.45	0.50
e	0.65BSC		
h	0.10BSC		
L1	0.20	0.25	0.30
L2	0.20	0.25	0.30
A	0.45	0.50	0.55
z	0.15	0.20	0.25

9. Soldering Parameters


Reflow Condition		Pb-Free Assembly
Pre-heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L)(Liquid us)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
xTime 25°C to Peak Temp (T_p)		8 min. Max
Do not exceed		+260°C

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