

1. Features

- 2-pin lead-less package
- Junction capacitance (Max value: 0.45pF)
- Peak Pulse current (8/20µs) Max:4A
- IEC61000-4-2 (ESD) ±25kV (air), ±22kV (contact)
- Low clamping voltage
- Low leakage current
- Working voltages:3.3V
- RoHS Compliant

2. Mechanical Data

- Case:Molded Plastic,DFN0603-2L.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:H
- Marking:marked on body.





Bi-directional

3. Maximum Ratings

Electrical Characteristics Rating at 25° ambient temperature unless otherwise specified.

0 I I			
Characteristic	Symbol	Value	Unit
Peak Pulse Power (tp=8/20µs waveform)	P _{PP}	100	W
Peak Pulse Current (8/20µs)	I _{PP}	4	А
ESD per IEC 61000-4-2 (Air)	V	±25	кv
ESD per IEC 61000-4-2 (Contact)	V _{ESD}	±22	ΓV
Junction Temperature	Tj	-55~+125	°C
Storage Temperature	T _{stg}	-55~+150	°C

4. Electrical Characteristics (T_A=25℃ unless otherwise noted)

Characteristics	Symbol	Condition	Min	TYP	Max	Unit
Reverse Working Voltage	V _{RWM}		-	-	3.3	V
Reverse Breakdown Voltage	V _{BR}	I _R = 1mA	6	-	8	V
Reverse Leakage Current	I _R	V _R =3.3V	-	-	0.1	uA
Clamping voltage	Vc	I _{PP} = 1A,T _P =8/20us	-	-	11	V
Clamping voltage	Vc	I _{PP} = 4A,T _P =8/20us	-	-	25	V
Junction capacitance	CJ	V _R =0V,f =1MHz	-	0.25	0.45	pF

1-Line Bi-directional TVS Diode

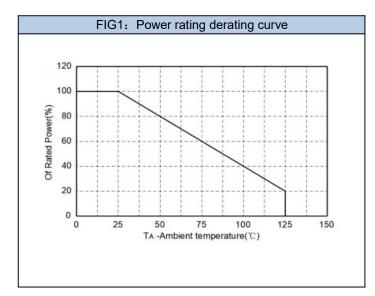
DFN0603-2L

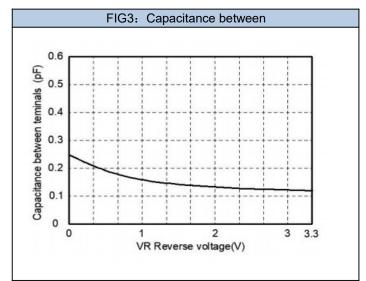


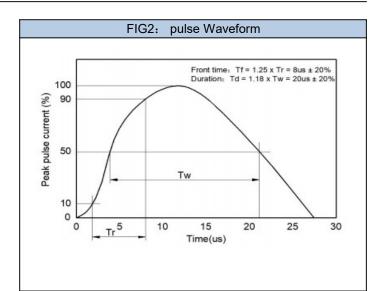
ESDSLC3V301P0B

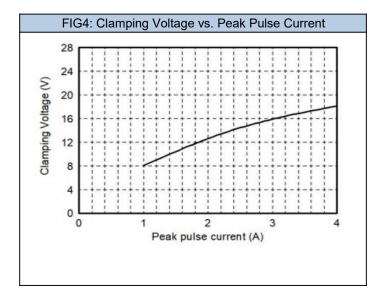
1-Line Bi-directional TVS Diode

5. Rating And Characteristic Curves









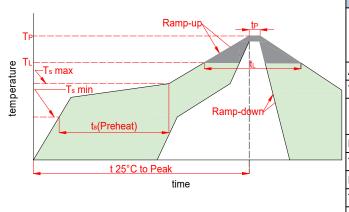
2 of 4



ESDSLC3V301P0B

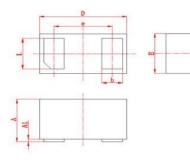
1-Line Bi-directional TVS Diode

6. Soldering Parameters

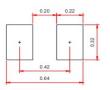


	Reflow Condition	Lead-free
	Temp. min(T _s (min))	150 ℃
Pre Heat	Temp. max(T _s (min))	200 ℃
	Time(min to max)(t _s)	60~120s
Aver. ramp	up rate(Liquidus Temp.)(T _L)to peak	3℃/s max
T _s (max) to	T _L -Ramp-up Rate	3℃/s max
Reflow	Temp.(T _L)(Liquidus)	217℃
Reliow	Temp.(t _L)(Liquidus)	60~150s
Peak Temp	.(T _P)	260⁺ ^{0/-5} ℃
Time within	actual peak Temp.(t _p)	30s max
Ramp-dowr	n Rate	6℃/s max
Time 25℃ t	o peak Tempe.(T _p)	8 minutes max
Do not exce	ed	260 ℃

7. Dimensions



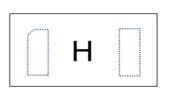
Mounting PAD Layout



Symbol	Inc	hes	Millim	neters
Symbol	Min	Max	Min	Max
A	0.011	0.015	0.27	0.37
A1	0.000	0.002	0.00	0.05
D	0.022	0.026	0.55	0.65
E	0.010	0.014	0.25	0.35
е	0.0	16	0.4	40
b	0.004	0.007	0.09	0.19
L	0.007	0.011	0.18	0.28

8. Part Marking System

Cathode Band



9. Package Information

Package	Part Number	Marking Code	Quantity(pcs)
DFN0603-2L	ESDSLC5V001P0B	Н	15000

1-Line Bi-directional TVS Diode

Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without from XINNUO.
- XINNUO reserves the right to make changes to this document and its products and specifications.
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown her are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.