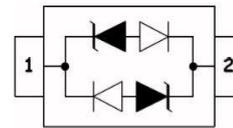
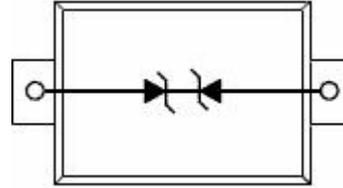
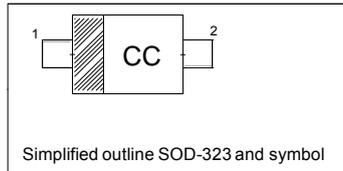


Bi-direction ESD Protection Diode

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Applications

- Cellular phones
- Audio and video equipment
- Handheld-Wireless Systems
- PDAs
- Ethernet – 10/100/1000 Base

Features

- Excellent package:1.7mm×1.3mm×1.0mm
- Fast response time
- JESD22-A114-B ESD Rating of class 3B per human body model
- IEC 61000-4-2 Level 4 ESD protection
- Portable electronics
- USB Interface
- Other electronics equipments communication systems

MAXIMUM RATINGS T =25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{ESD}	ESD per IEC 61000-4-2 (Air)	±20	kV
	ESD per IEC 61000-4-2 (Contact)	±20	
P_{PP}	Peak Pulse Power (8/20μs)	350	W
T_{OPT}	Operating Temperature	-55/+150	°C
T_{STG}	Storage Temperature	-55/+150	°C
T_L	Lead Soldering Temperature	260	°C

ESD standards compliance
IEC61000-4-2 Standard

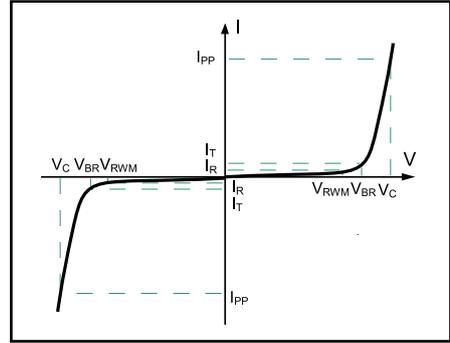
Contact Discharge		Air Discharge	
Level	Test Voltage kV	Level	Test Voltage kV
1	2	1	2
2	4	2	4
3	6	3	8
4	8	4	15

JESD22-A114-B Standard

ESD Class	Human Body Discharge V
0	0~249
1A	250~499
1B	500~999
1C	1000~1999
2	2000~3999
3A	4000~7999
3B	8000~15999

ELECTRICAL PARAMETER

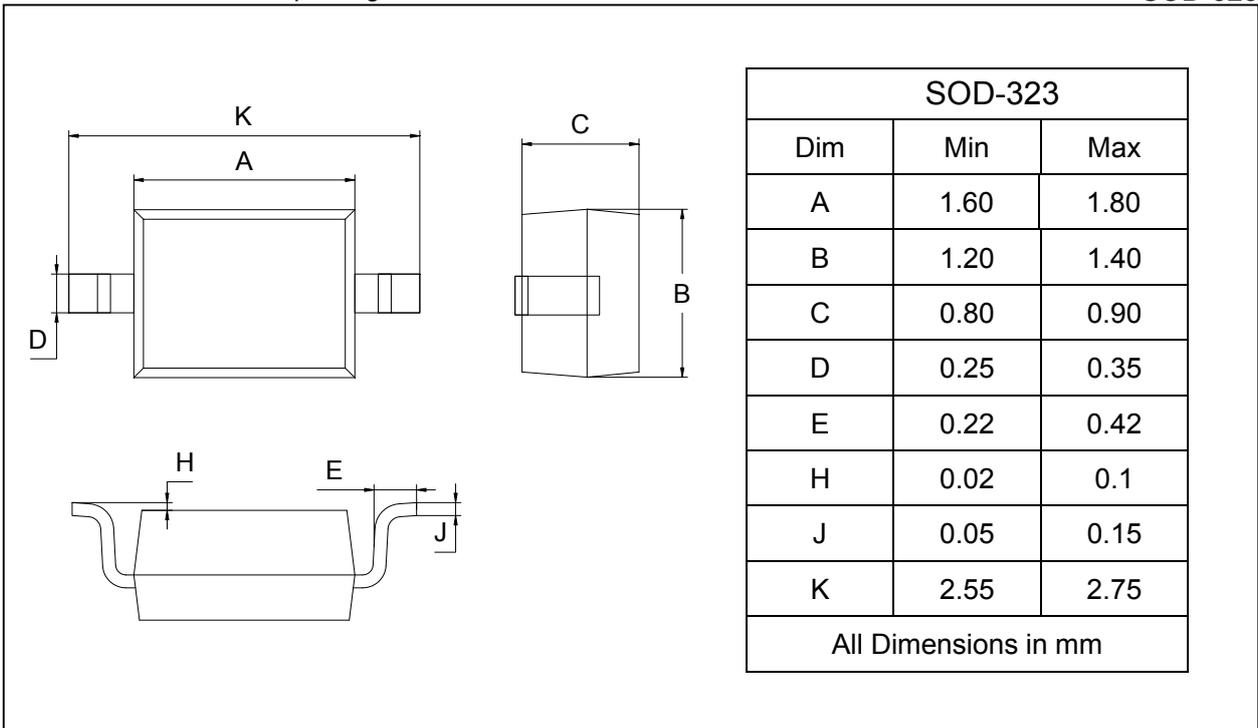
Symbol	Parameter
V_C	Clamping Voltage @ I_{PP}
I_{PP}	Peak Pulse Current
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_R	Reverse Leakage Current @ V_{RWM}
V_{RWM}	Reverse Standoff Voltage


V-I characteristics for a Bi-directional TVS
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

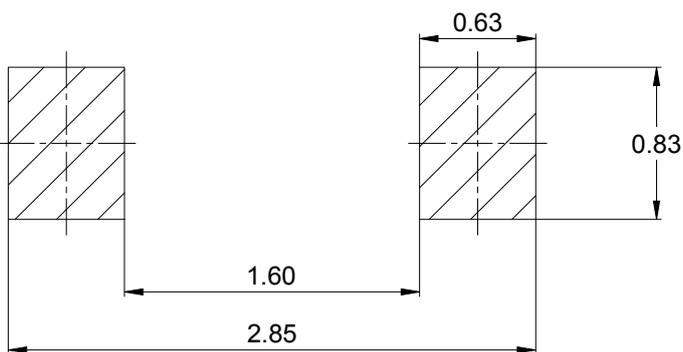
Device	V_{RWM} (V)	I_R (μ A) @ V_{RWM}	V_{BR} (V) @ I_T (Note 2)	I_T	C (pF)	V_C (V) @ $I_{PP} = 20$ A (Note 3)	V_C
	Max	Max	Min	mA	Typ	Max	Per IEC61000-4-2 (Note 4)
ESD03V32D-LC	3.3	1.0	5.4	1.0	1	20	Figures 1 and 2 See Below

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm