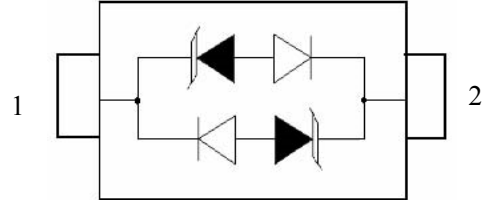


**Features**

- IEC 61000-4-2(ESD)±15KV(air), ±8KV(contact)
- 150Watts peak pulse power (tp=8/20µS)
- Ultra low capacitance: 1.5pF maximum
- Low clamping voltage
- Weight 5.0 mg



SOD323

**Application Information**

- Ethernet

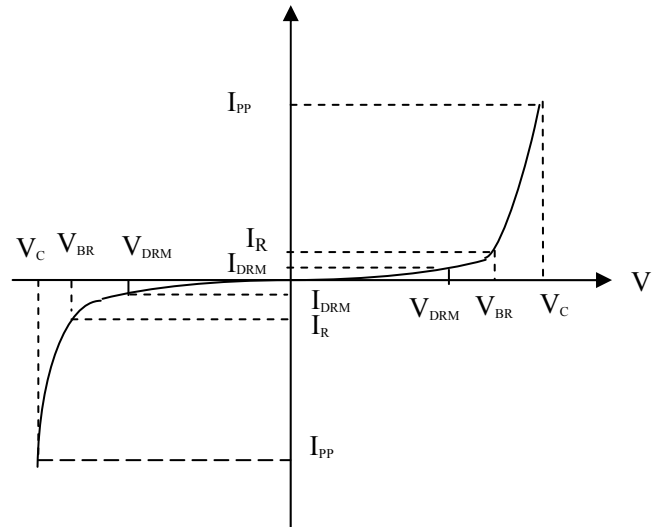
**Part Number and Electrical Parameter**

Part Number	I <sub>DRM</sub> @V <sub>DRM</sub>		V <sub>BR</sub> <sup>①</sup> @I <sub>R</sub>		Vc@Ipp <sup>②</sup>		Vc@Ipp <sup>②</sup>		Co <sup>③</sup>	
	µA	V	V	mA	V	A	V	A	pF	pF
	MAX		MIN		MAX		MAX		TYP	MAX
BV03CW	0.5	3	3.5	1	5.8	1	15	10	0.85	1.5

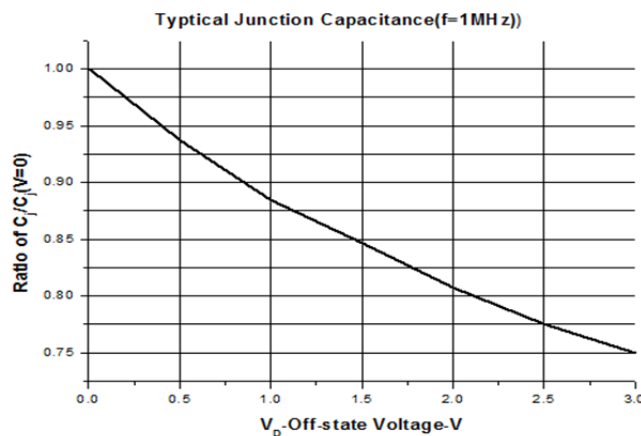
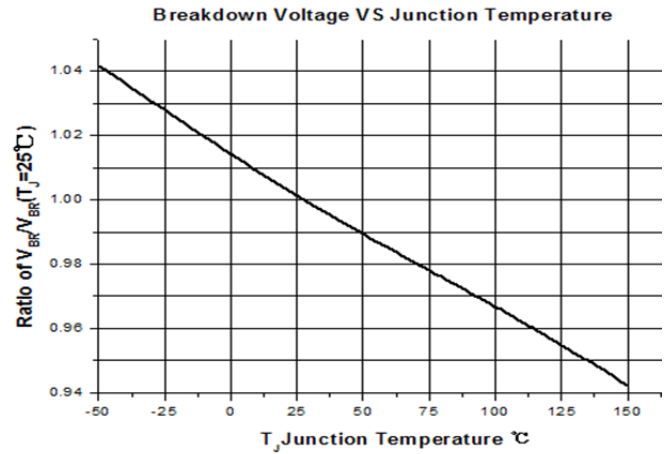
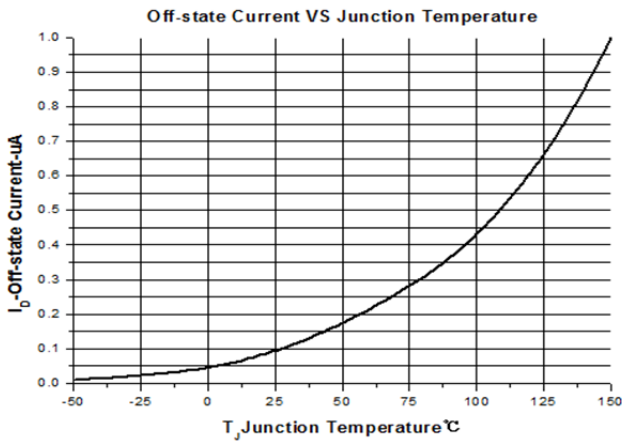
Absolute maximum ratings measured at T= 25°C RH = 45%-75% (unless otherwise noted).

- ① V<sub>BR</sub> is measured at I<sub>R</sub>=1mA
- ② Surge Waveform: 8/20µS.
- ③ Off-state capacitance is measured in V<sub>DC</sub>=0V, V<sub>RMS</sub>=1V, f=1MHz

Parameters	Definition
$V_C$	Clamping voltage
$I_{pp}$	Surge waveform 8/20 $\mu$ s
$V_{DRM}$	Stand-off Voltage
$V_{BR}$	Breakdown Voltage
$I_{DRM}$	Reverse Leakage Current
$I_R$	Test current
$P_{pp}$	Peak Pulse Power Dissipation



### Typical Characteristics



### Thermal Considerations

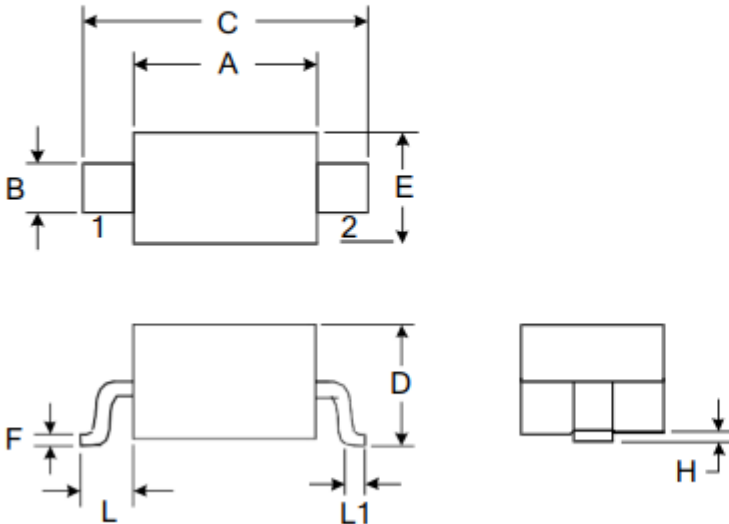
symbol	Parameter	Value	Unit
$T_J$	Operating Junction Temperature Range	-55 to +150	$^{\circ}C$
$T_S$	Storage Temperature Range	-55 to +150	$^{\circ}C$

### Environmental Characteristics

Testing items	Technical standards
High temperature Reverse Bias Test	Temperature: 150±3°C Bias=80%V <sub>DRM</sub> Time:168H
High Temperature Life Test	Temperature: 150°C Time:168H
High-low Temperature Cycle test	Temperature:From -40°C to125 °C Dwell time : 30min,10cycles
High Temperature &High Humidity Test	Temperature: 85 °C Humidity:85% Time:168H
Pressure cooker Test	Temperature: 121°C, 2atm. Humidity:100% Time:24H
Resistance of soldering heat	Temperature: 260±5°C Time of dip soldering: 10s, 3times

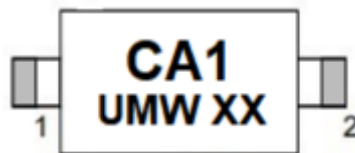
Note: The above testing items can be specified by customer's special request

**Outline Drawing – SOD323**



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	0.250	0.350	0.010	0.014
C	2.500	2.700	0.098	0.106
D		1.000		0.039
E	1.200	1.400	0.047	0.055
F	0.080	0.150	0.003	0.006
L	0.475 REF		0.019REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004

**Marking**



**Ordering information**

Order code	Package	Base qty	Delivery mode
UMW BV03CW	SOD-323	3000	Tape and reel