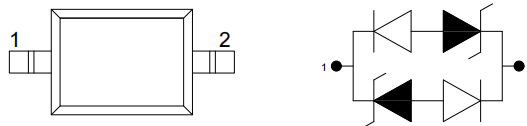


Features

- IEC 61000-4-2 Level 4 ESD Protection
 - $\pm 15\text{kV}$ Contact Discharge
 - $\pm 15\text{kV}$ Air Discharge
- IEC 61000-4-4 EFT Protection
 - 40A (5/50ns)
- 300W Peak pulse Power (8/20us)
- RoHS compliance
- Bidirectional configuration
- Ultra-low Capacitance: 0.8pF (Typical)
- Low clamping voltage
- Protects one power or I/O

3. Applications

- Interfaces
 - USB 2.0/1.1
 - GPIO
 - Ethernet 10/100/1000 Mbps
 - Audio
- End Equipment
 - Industrial and Serve Robots
 - Laptops and Desktops
 - TV and Monitors
 - Wearables



MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

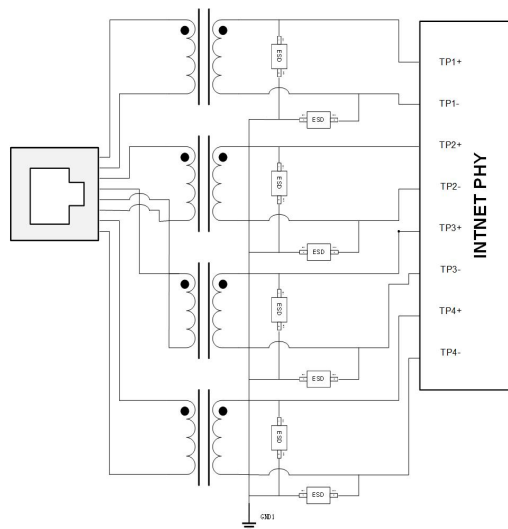
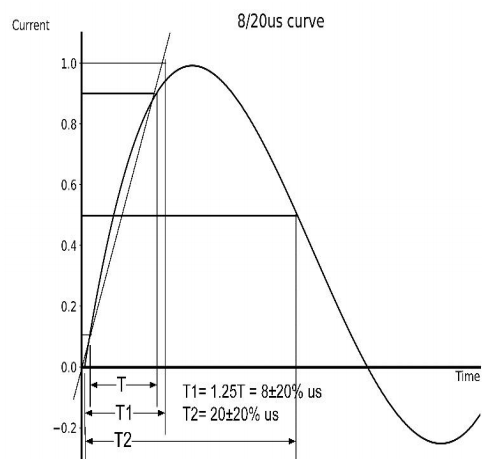
Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P _{pk}	-	300	W
Peak pulse current (tp=8/20us)@25°C	I _{PP}		Refer to Table-5	A
ESD (IEC61000-4-2 air discharge) @25°C	V _{ESD}	-	± 15	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V _{ESD}	-	± 15	kV
Junction temperature	T _J	-	150	°C
Operating temperature	T _{OP}	-40	125	°C
Storage temperature	T _{STG}	-55	150	°C
Lead temperature	T _L	-	260	°C

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

Symbol	Description
V_{RWM}	Rated reverse stand-off voltage
V_{BR}	Minimum breakdown voltage @ $I_T = 1mA$
V_{CL}	Typical Clamping voltage
I_{PP}	Maximum peak pulse current
I_R	Reverse leakage current @ V_{RWM}
C_O	Typical line capacitance ($V_{IO}=0V$, $V_{P-P} = 30mV$, $f = 1MHz$)

Part Number	V_{RWM}	V_{BR}	$V_{CL}@I=1A$	I_{PP}	$V_{CL}@I=I_{PP}$	I_R	C_O
	(V)	(V)	(V)	(A)	(V)	(uA)	(pF)
BV03C-L	3.3	4.5	8.5	14.0	20.0	1.0	0.8
BV05C-L	5.0	6.5	9.5	12.0	21.0	1.0	0.8
BV08C-L	8.0	8.5	12.0	10.0	25.0	1.0	0.8
BV12C-L	12.0	13.3	19.0	7.0	35	1.0	0.8
BV15C-L	15.0	16.5	24	5.0	45	1.0	0.8
BV24C-L	24.0	26.0	34	3.0	55	1.0	0.8

Typical Performance Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise Specified)



Outline Drawing – SOD323

