

ULTRA LOW CAPACITANCE TVS ARRAY

APPLICATIONS

- ✓ Ethernet - 10/100/1000 Base T
- ✓ Cellular Phones
- ✓ Handheld - Wireless Systems
- ✓ Personal Digital Assistant (PDA)
- ✓ USB Interface

IEC COMPATIBILITY (EN61000-4)

- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns
- ✓ 61000-4-5 (Surge): 12A, 8/20 μ s - Level 1(Line-Ground) & Level 2(Line-Line)

FEATURES

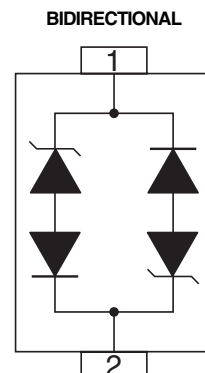
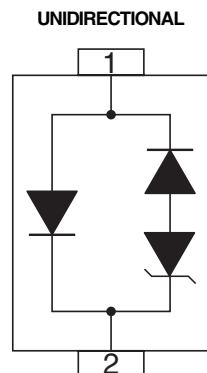
- ✓ 350 Watts Peak Pulse Power per Line ($t_p = 8/20\mu$ s)
- ✓ Unidirectional & Bidirectional Configurations
- ✓ Replacement for MLV (0805)
- ✓ Protects One Power or I/O Port
- ✓ ESD Protection > 40 kilovolts
- ✓ Low Clamping Voltage
- ✓ Available in Multiple Voltage Types Ranging from 3V to 24V
- ✓ **ULTRA LOW CAPACITANCE: 3pF Typical**

MECHANICAL CHARACTERISTICS

- ✓ Molded JEDEC SOD-323
- ✓ Weight 10 milligrams (Approximate)
- ✓ Flammability rating UL 94V-0
- ✓ 8mm Tape and Reel Per EIA Standard 481
- ✓ Device Marking: Marking Code & Polarity Band (*Unidirectional Only*)



PIN CONFIGURATIONS



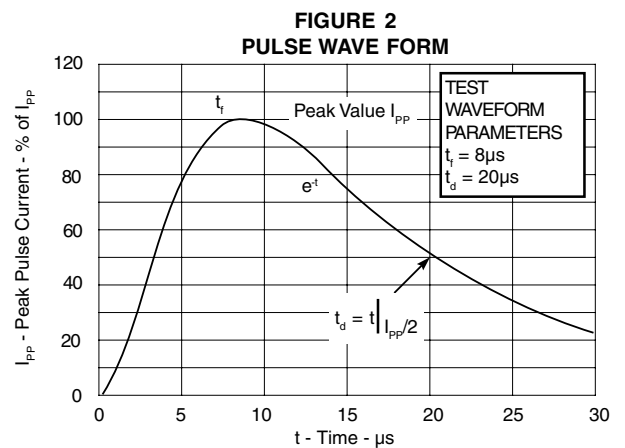
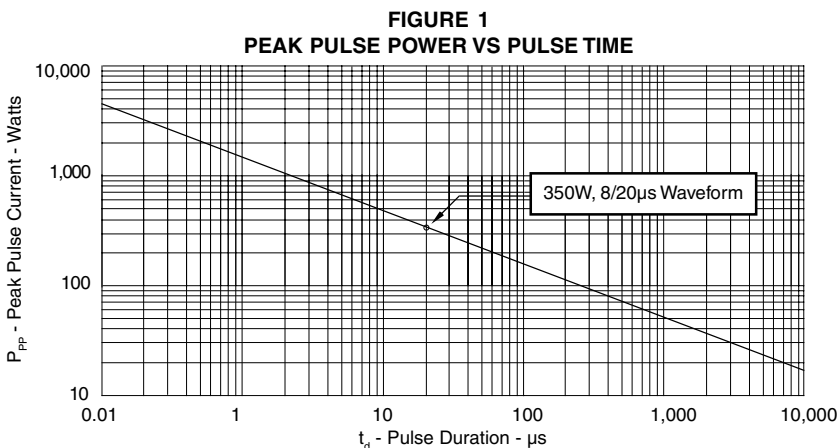
DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power ($t_p = 8/20\mu s$) - See Figure 1	P_{PP}	350	Watts
Operating Temperature	T_J	-55°C to 150°C	°C
Storage Temperature	T_{STG}	-55°C to 150°C	°C

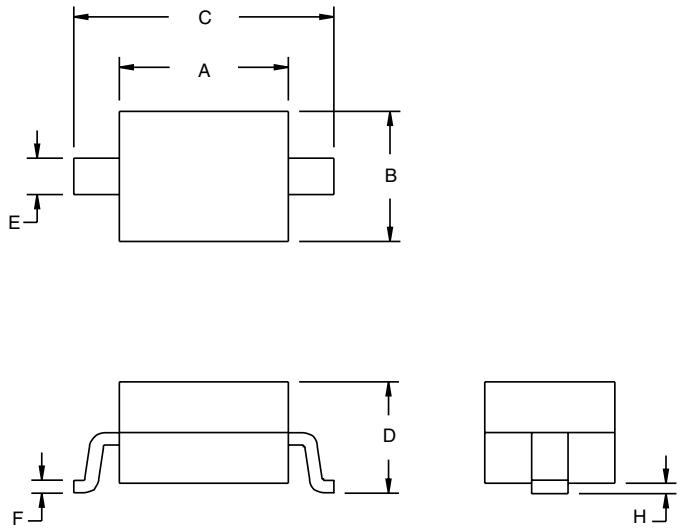

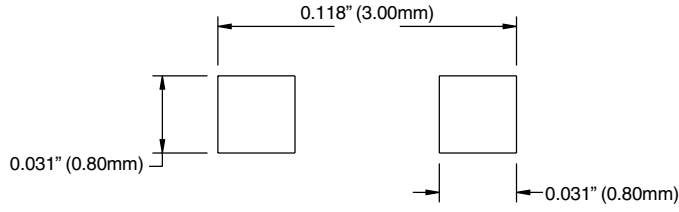
ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified							
PART NUMBER (See Note 1 & Note 2)	DEVICE MARKING	RATED STAND-OFF VOLTAGE V_{WM} VOLTS	MINIMUM BREAKDOWN VOLTAGE @ 1mA $V_{(BR)}$ VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ $I_p = 1A$ V_C VOLTS	MAXIMUM CLAMPING VOLTAGE (See Fig. 2) @ 8/20µs $V_C @ I_{PP}$	MAXIMUM LEAKAGE CURRENT @ V_{WM} I_D µA	TYPICAL CAPACITANCE @ 0V, 1 MHz C pF
GBLC03	3	3.3	4.0	7.0	19.0V @ 20.0A	5	3
GBLC03C	3C	3.3	4.0	7.0	19.0V @ 20.0A	5	3
GBLC05	5	5.0	6.0	9.8	18.3V @ 17.0A	5	3
GBLC05C	5C	5.0	6.0	9.8	18.3V @ 17.0A	5	3
GBLC08	8	8.0	8.5	13.4	18.5V @ 17.0A	2	3
GBLC08C	8C	8.0	8.5	13.4	18.5V @ 17.0A	2	3
GBLC12	2	12.0	13.3	19.0	28.6V @ 11.0A	1	3
GBLC12C	2C	12.0	13.3	19.0	28.6V @ 11.0A	1	3
GBLC15	6	15.0	16.7	24.0	31.8V @ 10.0A	1	3
GBLC15C	6C	15.0	16.7	24.0	31.8V @ 10.0A	1	3
GBLC18	1	18.0	20.0	29.0	45.0V @ 8.0A	1	3
GBLC18C	1C	18.0	20.0	29.0	45.0V @ 8.0A	1	3
GBLC24	4	24.0	26.7	43.0	56.0V @ 6.0A	1	3
GBLC24C	4C	24.0	26.7	43.0	56.0V @ 6.0A	1	3

Note 1: Part numbers with an additional "C" suffix are bidirectional devices, i.e., GBLC05C.

Note 2: For Bidirectional Devices Only: Electrical characteristics apply in both directions.



PACKAGE OUTLINE & DIMENSIONS

<p style="text-align: center;">PACKAGE OUTLINE</p> 	<p style="text-align: center;">SOD-323 PACKAGE</p> 																																												
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<p style="text-align: center;">MOUNTING PAD</p> 	<p>NOTES</p> <ol style="list-style-type: none"> Controlling Dimensions in Millimeters. Dimensions are exclusive of mold flash and metal burrs. <p>TAPE & REEL ORDERING NOMENCLATURE</p> <ol style="list-style-type: none"> Surface mount product is taped and reeled in accordance with EIA-481. Suffix -T7 = 7 Inch Reel - 3,000 pieces per 8mm tape, i.e., <i>GBLC05C-T7</i>. <p style="text-align: right;">Outline & Dimensions: Rev 1 - 11/01, 06010</p>																																												

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