

FEATURES

- ESD, IEC 61000-4-2, $\pm 30\text{kV}$ contact, $\pm 30\text{kV}$ air
- EFT, IEC 61000-4-4, 20A (5/50ns)
- Lightning, IEC 61000-4-5 2nd Edition, 17A ($t_P=8/20\mu\text{s}$,)
- Low clamping voltage

TYPICAL APPLICATIONS

- Switches/Buttons
- Test Equipment/Instrumentation
- Point-of-Sale Terminals
- Medical Equipment.
- Automotive Electronics

MECHANICAL DATA

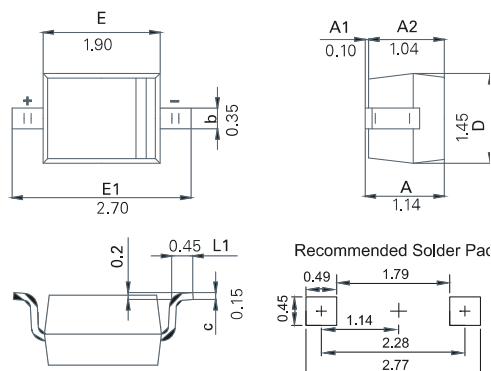
Small SOD323 package fits 0805 footprints Epoxy meets

UL 94V-0 flammability rating

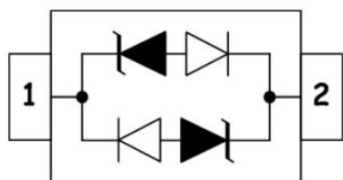
Polarity: Color band denotes cathode end

PACKAGE OUTLINE DIMENSIONS

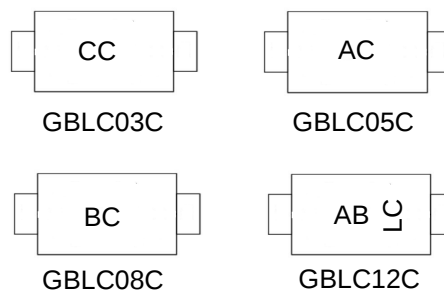
(millimeters)



Pinout and Functional Block Diagram



Marking Information



Mechanical Characteristics(TA=25°C unless otherwise noted)

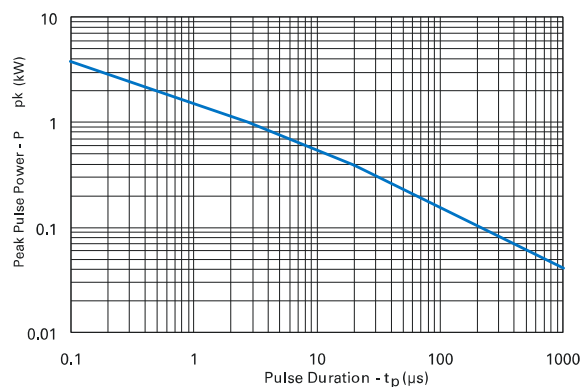
PARAMETER	SYMBOL	VALUE	UNIT
Peak Pulse Power ($t_P=8/20\mu\text{s}$ waveform)	PPM	350	W
Peak pulse current with a waveform	IPPM	See next table	A
Soldering Temperature, $T_{\text{max}} = 10\text{s}$	TL	260	°C
Operating junction and storage temperature range	TJ, TSTG	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

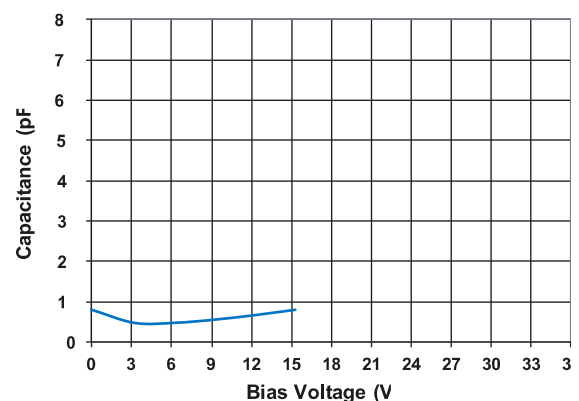
Part Number	Breakdown voltage VBR@IT		Test Current IT	Reverse Stand off Voltage VRMW	Max. Reverse Leakage@VR WM	Max. Clamp ing Voltage@I PP	Max. Peak Pulse Current	Maximum Junction Capacitance @0V/1MHz
UNI	MIN (V)	MAX (V)	(mA)	V	uA (max)	V	A	PF
GBLC03C	4.0	7.5	1	3.3	5	18	19	0.8
GBLC05C	6.0	9.0	1	5	5	18.3	17	0.8
GBLC08C	8.5	12	1	8	2	21	17	0.8
GBLC12C	13.3	15	1	12	1	28.6	11	0.8

Characteristic Curves

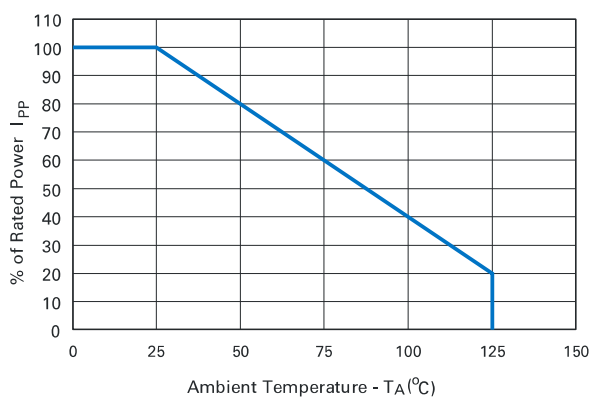
Non-Repetitive Peak Pulse Power vs. Pulse Time



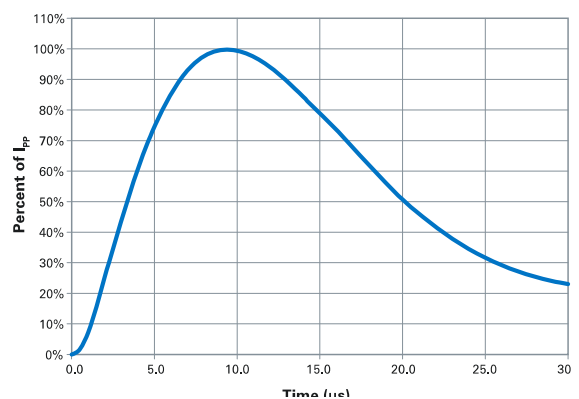
Capacitance vs. Bias



Power Derating Curve

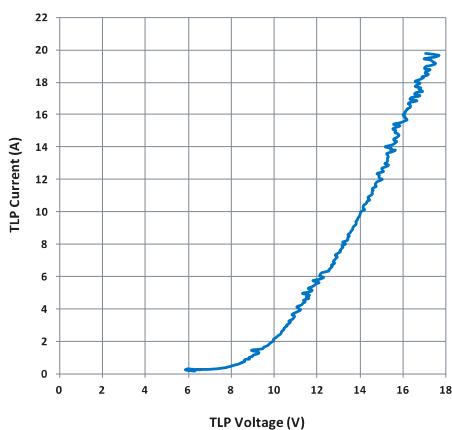


8/20 μs Pulse Waveform



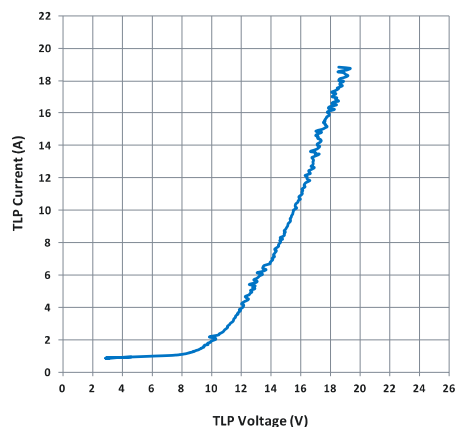
GBLC03C

Transmission Line Pulsing(TLP) Plot



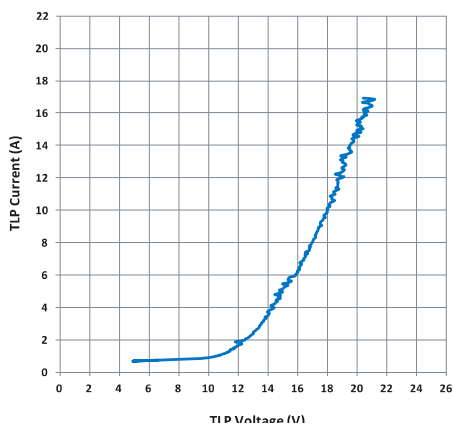
GBLC05C

Transmission Line Pulsing(TLP) Plot



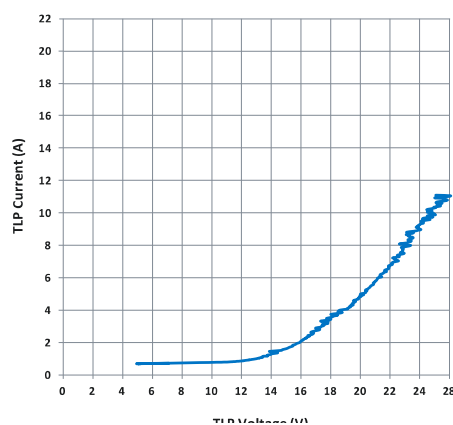
GBLC08C

Transmission Line Pulsing(TLP) Plot

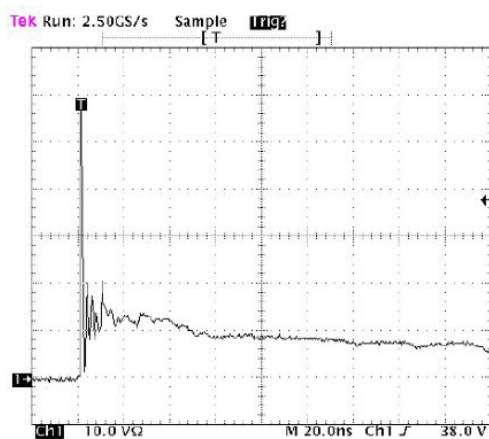


GBLC12C

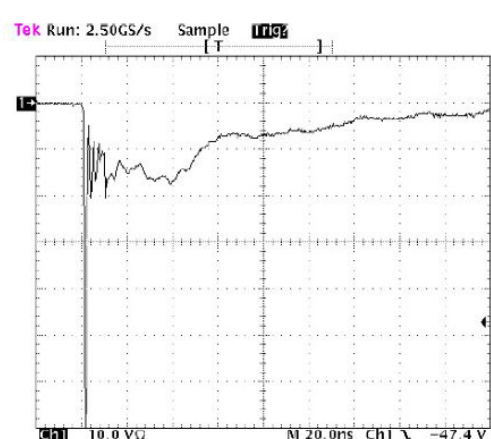
Transmission Line Pulsing(TLP) Plot



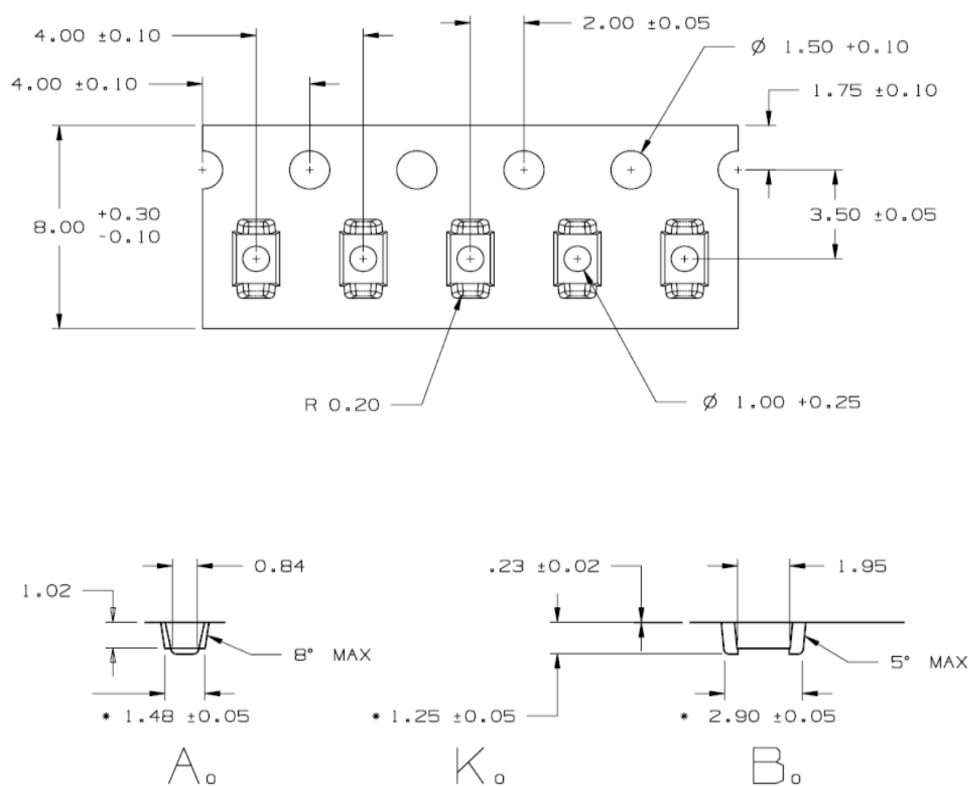
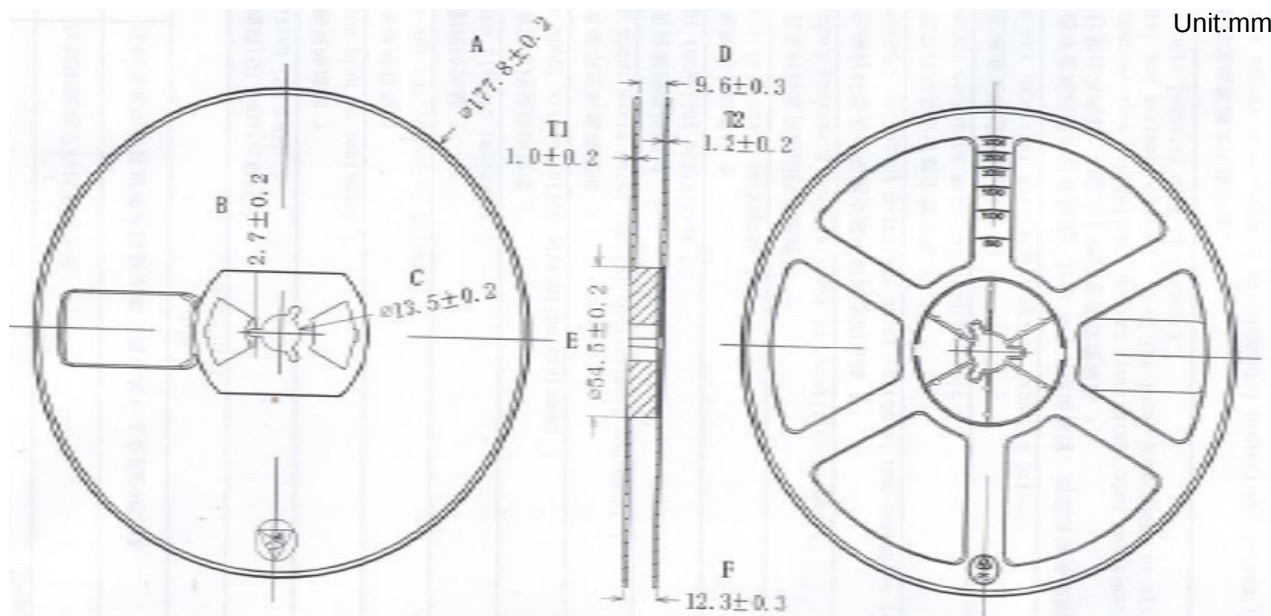
ESD Clamping Voltage Screenshot
Positive 8 KV contact per IEC 61000-4-2



ESD Clamping Voltage Screenshot
Negative 8 KV contact per IEC 61000-4-2



Tape size



Part Number	Packaging	Reel Size
GBLC**C	3000/Tape & Reel	7 inch