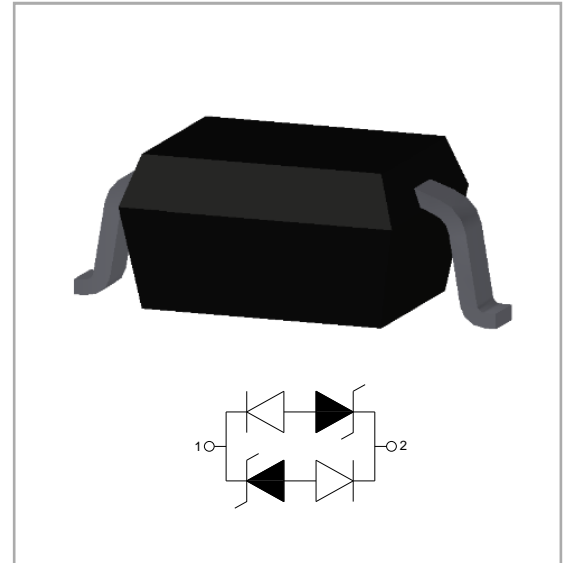


## ■ Features

- 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
- IEC 61000-4-2 Level 4 ESD Protection  
±15kV Contact Discharge  
±15kV Air Discharge
- IEC 61000-4-4 EFT Protection  
40A (5/50ns)



**SOD-323**

## ■ Applications

- Interfaces
- End Equipment

## ■ Absolute Maximum Rating(TA = 25°C unless otherwise noted)

Parameters	Symbol	Min.	Max.	Unit
Peak pulse power (tp=8/20us)@25°C	P <sub>pk</sub>	-	300	W
Peak pulse current (tp=8/20us)@25°C	I <sub>PP</sub>		12	A
ESD (IEC61000-4-2 air discharge) @25°C	V <sub>ESD</sub>	-	±15	kV
ESD (IEC61000-4-2 contact discharge) @25°C	V <sub>ESD</sub>	-	±15	kV
Junction temperature	T <sub>J</sub>	-	150	°C
Operating temperature	T <sub>OP</sub>	-40	125	°C
Storage temperature	T <sub>STG</sub>	-55	150	°C
Lead temperature	T <sub>L</sub>	-	260	°C

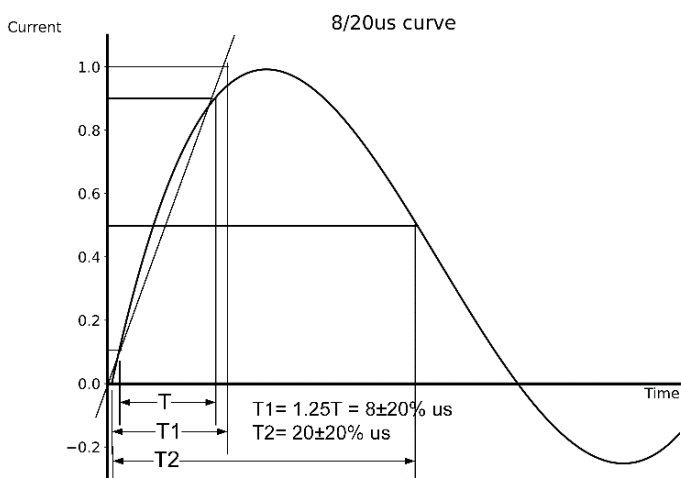
■ Electrical Characteristics ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Part Number	$V_{RWM}$ (Max.)	$V_{BR}(\text{Min.})$	$V_{CL}@I=1\text{A}$ (Typ.)	$I_{PP}$ (Max.)	$V_{CL}@I=I_{PP}$ (Typ.)	$I_R$ (Max.)	$C_O(\text{Typ.})$
	(V)	(V)	(V)	(A)	(V)	( $\mu\text{A}$ )	(pF)
GBLC05C	5.0	6.5	9.5	12.0	21.0	1.0	0.8

■ Electrical Parameters ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

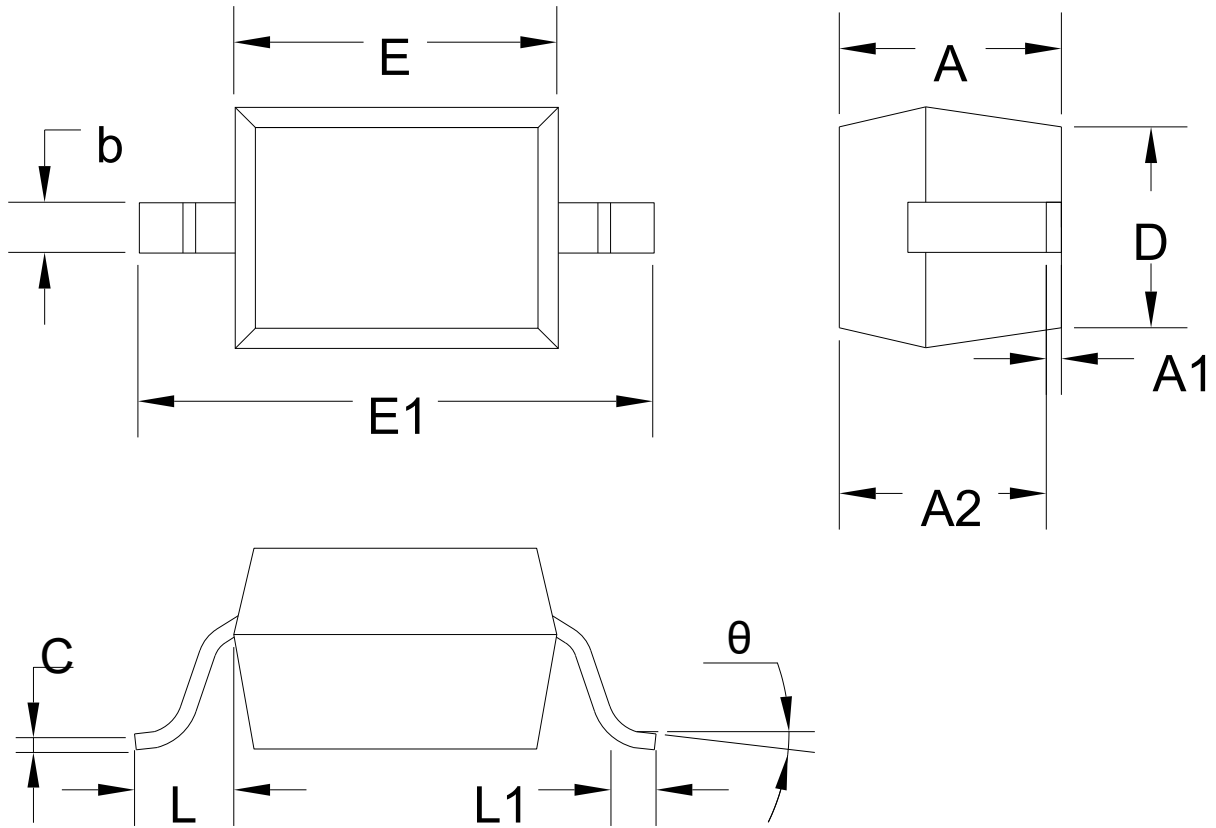
Symbol	Description
$V_{RWM}$	Rated reverse stand-off voltage
$V_{BR}$	Minimum breakdown voltage @ $I_T = 1\text{mA}$
$V_{CL}$	Clamping voltage
$I_{PP}$	Maximum peak pulse current
$I_R$	Reverse leakage current @ $V_{RWM}$
$C_O$	Typical line capacitance ( $V_{IO}=0\text{V}$ , $V_{P-P} = 30\text{mV}$ ,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

■ Typical Characteristics





■ Outline Drawing – SOD-323



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min.	Max.	Min.	Max.
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
C	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	0.108
L	0.475REF		0.019REF	
L1	0.250	0.400	0.010	0.016
$\theta$	0°	8°	0°	8°

■ ORDERING INFORMATION

Part Number	Package	Marking	Packing	Quantity per reel	Reel Size
GBLC05C	SOD-323	5B	Tape & Reel	3,000 PCS	7 inches