

### Features

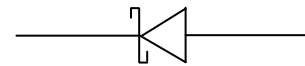
- Low forward voltage
- Forward Current: 0.2A
- Reverse Voltage 40V



**SOD-923**

### Applications

- Ultra High-speed Switching
- Voltage Clamping
- Protection Circuits
- Low Voltage Rectification
- High Efficiency DC-to-DC Conversion
- Low Power Consumption Applications



**Schematic Diagram**

### Absolute Maximum Ratings

( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Reverse Voltage	$V_R$	40	V
Continuous Forward Current	$I_o$	200	mA
Non-Repetitive Peak Forward Current <sup>1</sup>	$I_{FSM}$	1	A
Junction Temperature	$T_J$	-55 to +125	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55 to +125	$^{\circ}\text{C}$

Note 1: 8.3mS Single Half Sine-Wave

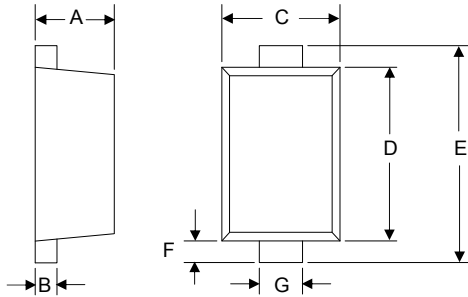
### Electrical Characteristics

( $T_A=25^{\circ}\text{C}$  unless otherwise specified)

Parameter	Symbol	Conditions	Min	Max	Unit
Forward Voltage	$V_F$	$I_F = 10\text{mA}$	0.16	0.3	V
		$I_F = 100\text{mA}$	0.31	0.45	
		$I_F = 200\text{mA}$	0.37	0.52	
Breakdown Voltage	$BV_R$	$I_R = 100\mu\text{A}$	40	-	V
Reverse Current	$I_R$	$V_R = 10\text{V}$	-	20	$\mu\text{A}$
		$V_R = 40\text{V}$	-	90	

**Package Outline Dimension**

SOD-923



Dim	Millimeters	
	Min	Max
A	0.36	0.43
B	0.07	0.17
C	0.55	0.65
D	0.75	0.85
E	0.95	1.05
F	0.05	0.15
G	0.15	0.25

**Order Information**

Device	Package	Marking	Carrier	Quantity	HSF Status
GS4002EL	SOD-923	S	Tape & Reel	8,000pcs	RoHS Compliant