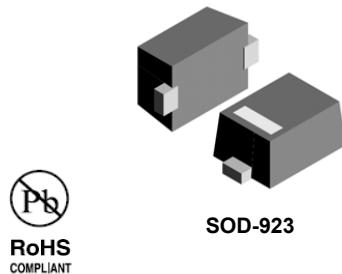


## Features

- Low current rectification
- Low forward voltage
- SOD-923 micro SMD package
- UL-94 V-0 / Green EMC
- Matte tin lead finish (Pb-Free)
- Cathode band / device marking



SOD-923



Schematic Diagram

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

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Reverse Voltage	$V_R$	30	V
Continuous Forward Current	$I_O$	100	mA
Non-Repetitive Peak Forward Current <sup>1</sup>	$I_{FSM}$	500	mA
Junction Temperature	$T_J$	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	Units
Forward Voltage	$V_F$	$I_F=10\text{mA}$	-	0.35	V
		$I_F=20\text{mA}$	-	0.4	
Reverse Current	$I_R$	$V_R=10\text{V}$	-	10	$\mu\text{A}$
		$V_R=30\text{V}$	-	50	
Breakdown Voltage	$BV_R$	$I_R=100\mu\text{A}$	30	-	V

### Typical Characteristic Curves

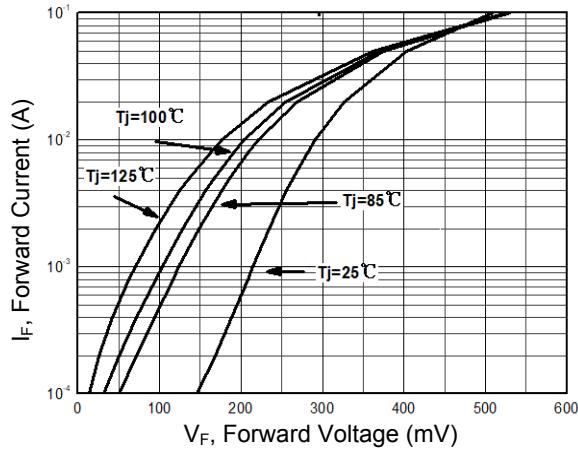


Figure 1. Forward Characteristics

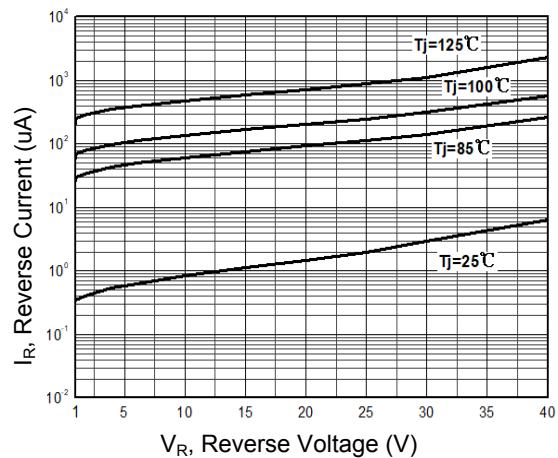


Figure 2. Reverse Characteristics

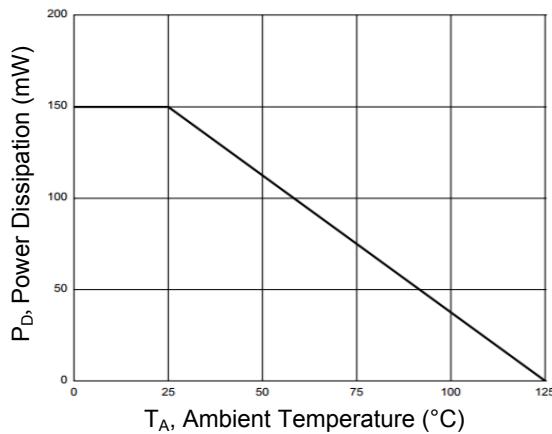


Figure 3. Power Derating Curve

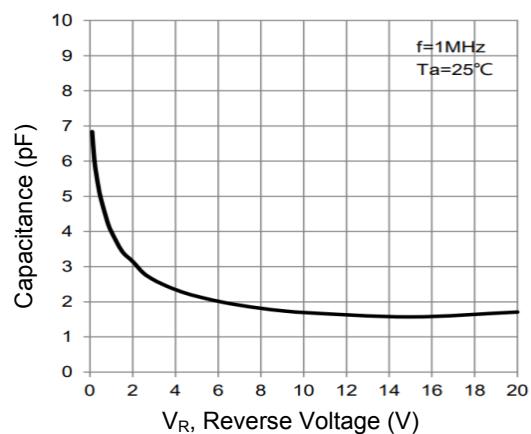
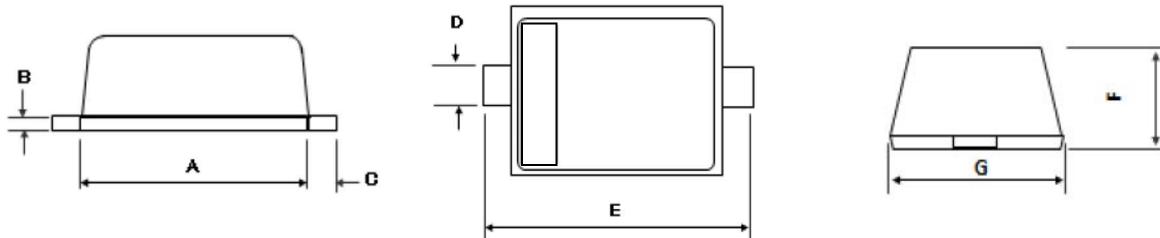


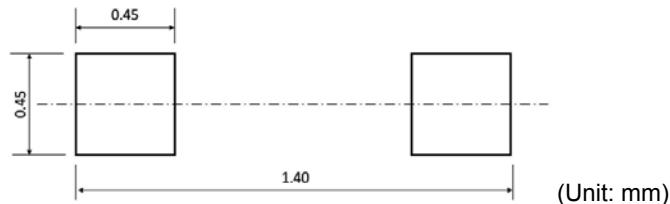
Figure 4. Capacitance vs. V<sub>R</sub>

### Package Outline Dimension (SOD-923)



Symbol	Dimensions in Millimeters		Dimensions in Inches	
	Min	Max	Min	Max
A	0.700	0.900	0.028	0.035
B	0.050	0.200	0.002	0.008
C	0.050	0.150	0.002	0.006
D	0.150	0.300	0.006	0.012
E	0.900	1.100	0.035	0.043
F	0.390	0.450	0.015	0.018
G	0.550	0.650	0.022	0.026

### Recommended Pad Layout



### Order Information

Device	Package	Marking	Carrier	Quantity
GS3010ELD	SOD-923	F	Tape & Reel	8,000 pcs / 7" Reel