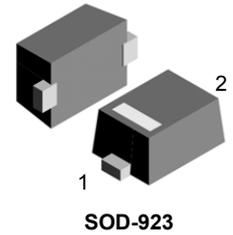


### Features

- High voltage, fast switching
- Low leakage current
- SOD-923 micro SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) lead finish
- Cathode band / device marking



**Schematic Diagram**

### Absolute Maximum Ratings (T<sub>A</sub>=25°C unless otherwise specified)

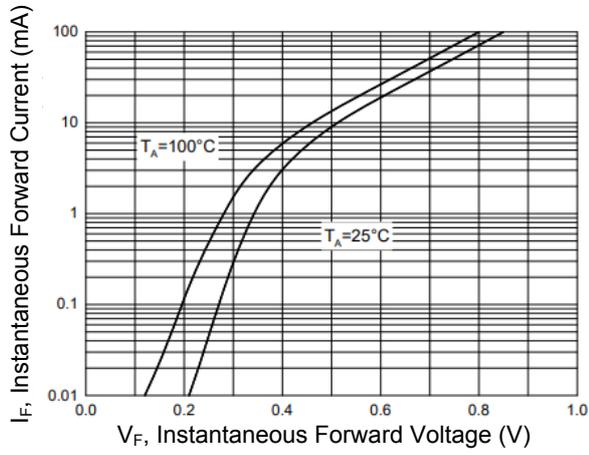
Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	V
DC Blocking Voltage	V <sub>R</sub>	40	V
Forward Current	I <sub>F</sub>	200	mA
Non-Repetitive Peak Forward Current <sup>1</sup>	I <sub>FSM</sub>	600	mA
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-65 to +125	°C

Note: 1. 8.3ms single half sine-wave.

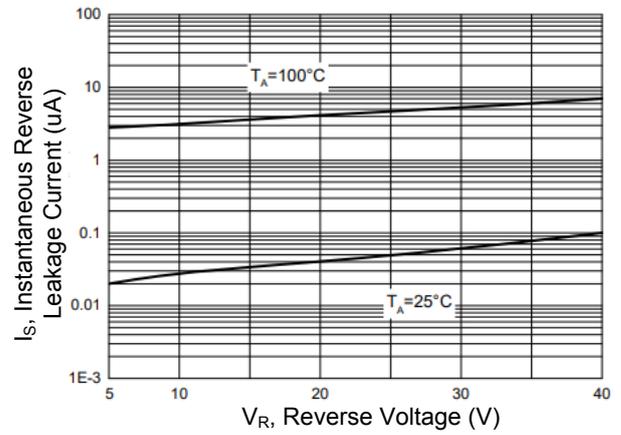
### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Max	Units
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1mA	0.38	V
		I <sub>F</sub> =40mA	1	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =30V	200	nA
Capacitance	C	V <sub>R</sub> =0V, f=1MHz	5	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>RR</sub> =1mA, R <sub>L</sub> =100Ω	5	nS

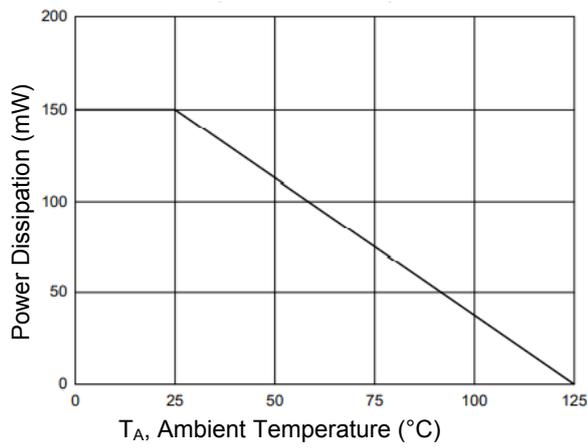
**Typical Characteristic Curves**



**Figure 1. Forward Characteristics**

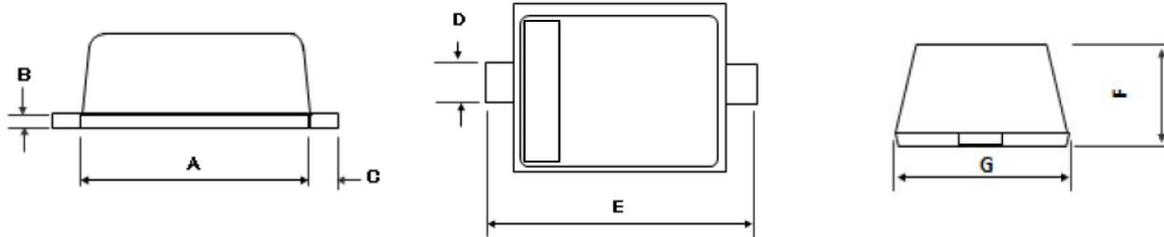


**Figure 2. Reverse Characteristics**



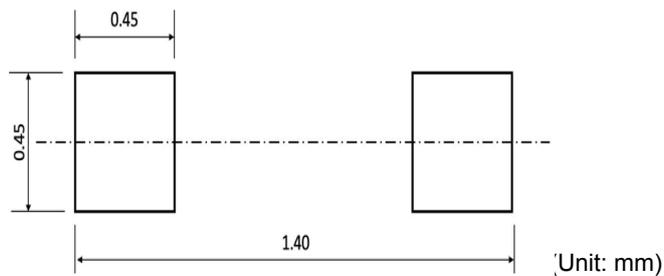
**Figure 3. Power Derating Curve**

**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
GSBAS40MC9	SOD-923	C9	Tape & Reel	8,000 pcs / 7" Reel

For more information, please contact us at: [inquiry@goodarksemi.com](mailto:inquiry@goodarksemi.com)