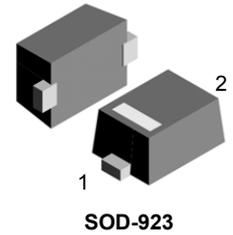


Features

- 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_A=25°C unless otherwise specified)

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V _{RRM}	40	V
DC Blocking Voltage	V _R	40	V
Forward Current	I _F	200	mA
Non-Repetitive Peak Forward Current ¹	I _{FSM}	600	mA
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-65 to +125	°C

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

Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Conditions	Max	Units
Forward Voltage	V _F	I _F =1mA	0.38	V
		I _F =40mA	1	
Reverse Current	I _R	V _R =30V	200	nA
Capacitance	C	V _R =0V, f=1MHz	5	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{RR} =1mA, R _L =100Ω	5	nS

Typical Characteristic Curves

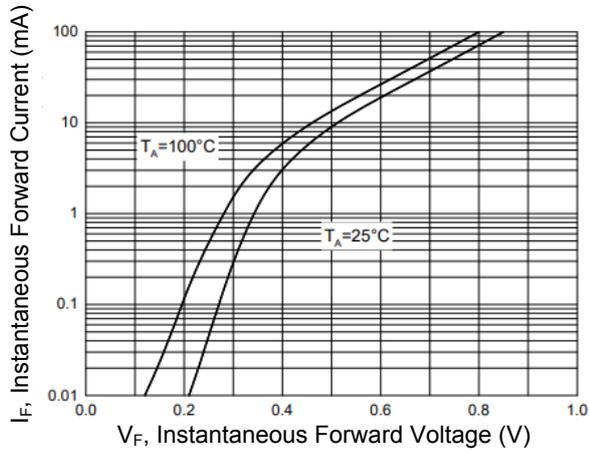


Figure 1. Forward Characteristics

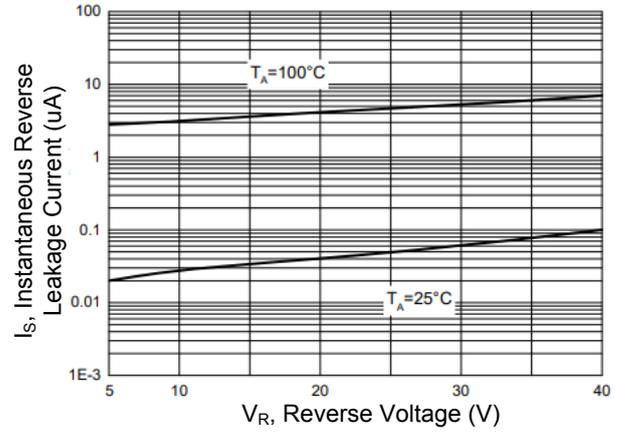


Figure 2. Reverse Characteristics

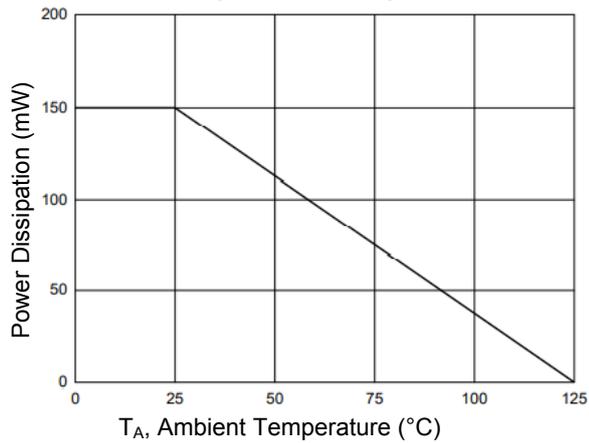
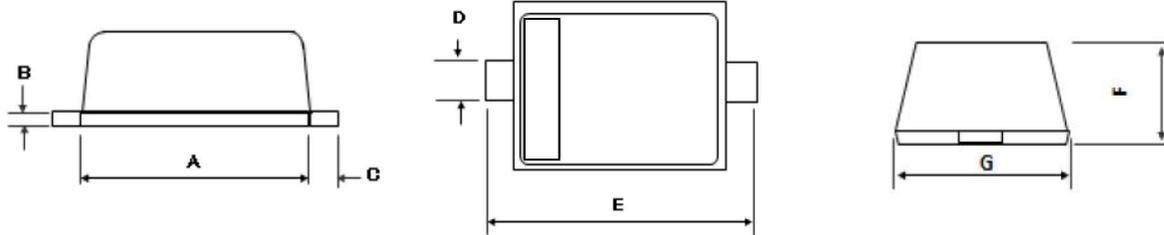


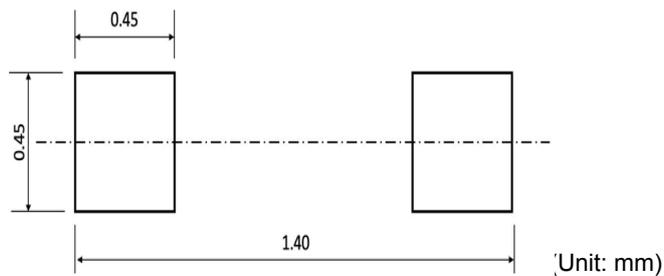
Figure 3. Power Derating Curve

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
GSBAS40M	SOD-923	C9	Tape & Reel	8,000 pcs / 7" Reel