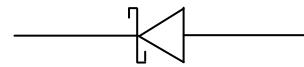


Features

- Low forward voltage
- Forward current: 0.2A
- Reverse voltage 40V



SOD-923



Schematic Diagram

Absolute Maximum Ratings (T_A=25°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 ¹	I _{FSM}	1	A
Junction Temperature	T _J	-55 to +125	°C
Storage Temperature	T _{STG}	-55 to +125	°C

Note:

1. 8.3mS single half sine-wave.

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

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =10mA	-	-	0.35	V
		I _F =200mA	-	-	0.50	
Breakdown Voltage	BV _R	I _R =500μA	40	-	-	V
Reverse Current	I _R	V _R =10V	-	-	30	μA
		V _R =20V	-	-	100	

Typical Electrical and Thermal Characteristic Curves

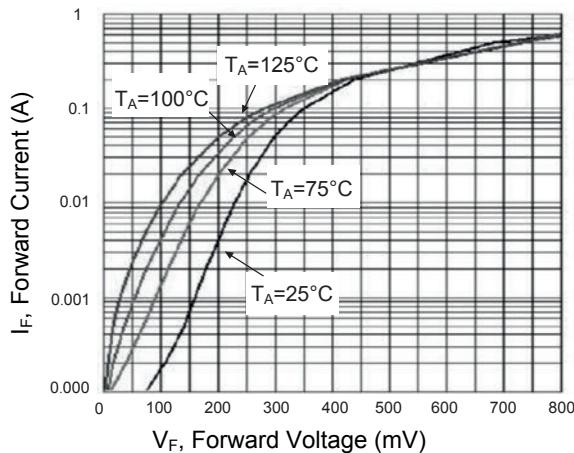


Figure 1. Forward Current Vs Forward Voltage

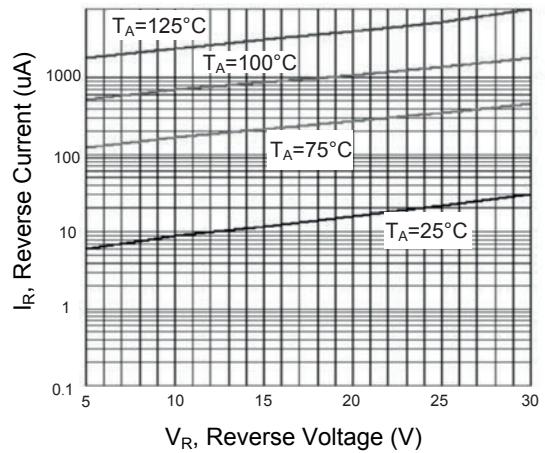


Figure 2. Reverse Current Vs Reverse Voltage

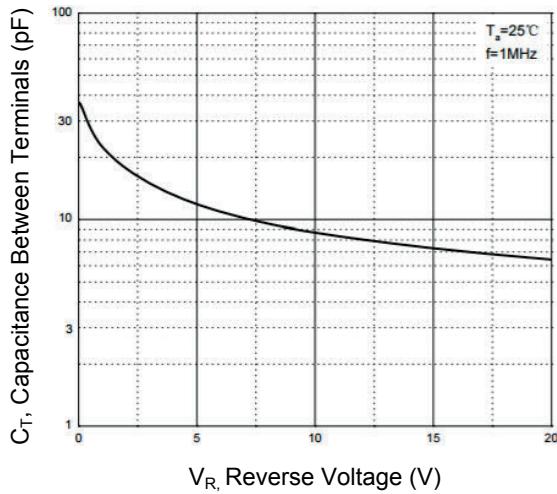


Figure 3. Capacitance Characteristics

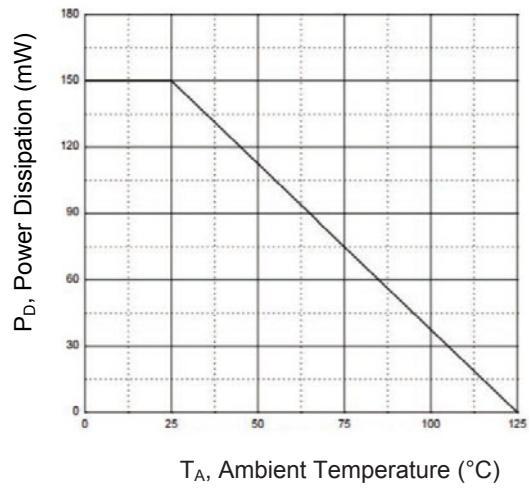
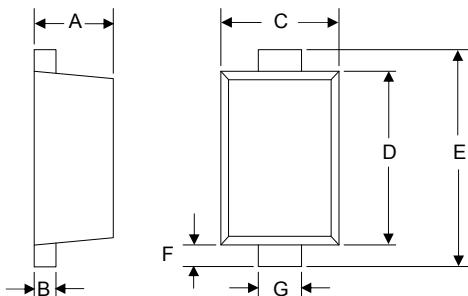


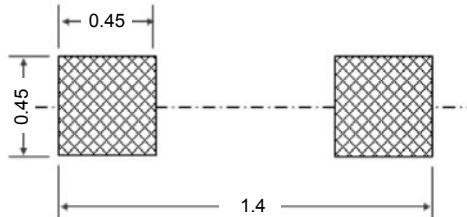
Figure 4. Power Derating Curve

Package Outline Dimension (SOD-923)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.39	0.45	0.015	0.018
B	0.05	0.20	0.002	0.008
C	0.55	0.65	0.022	0.026
D	0.70	0.90	0.028	0.035
E	0.90	1.10	0.035	0.043
F	0.05	0.15	0.002	0.006
G	0.15	0.30	0.006	0.012

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Order Information

Device	Package	Marking	Carrier	Quantity	HSF Status
GS4001EL	SOD-923	F5	Tape & Reel	8,000pcs	RoHS Compliant