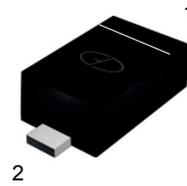


Features

- Low current rectification
- Low forward voltage
- SOD523 micro SMD package
- RoHS compliant
- UL-94 V-0 / Green EMC
- Matte tin lead finish (Pb-Free)



SOD-523



Schematic Diagram

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Repetitive Peak Reverse Voltage	V _{RRM}	30	V
Working Peak Reverse Voltage	V _{RWM}	30	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	-	-	0.5	
Breakdown Voltage	BV _R	I _R =500uA	30	-	-	V
Reverse Current	I _R	V _R =10V	-	-	30	uA
		V _R =20V	-	-	100	

Typical Electrical Characteristic Curves

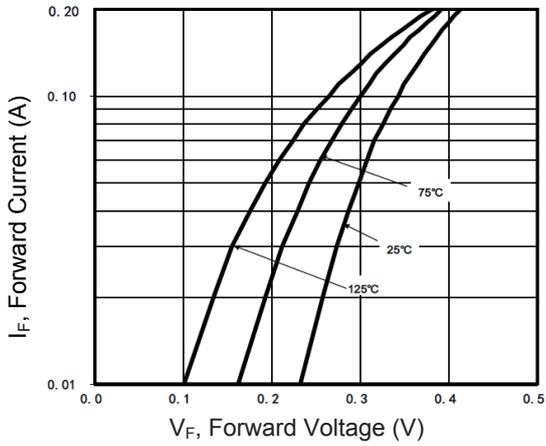


Figure 1. Forward Characteristics

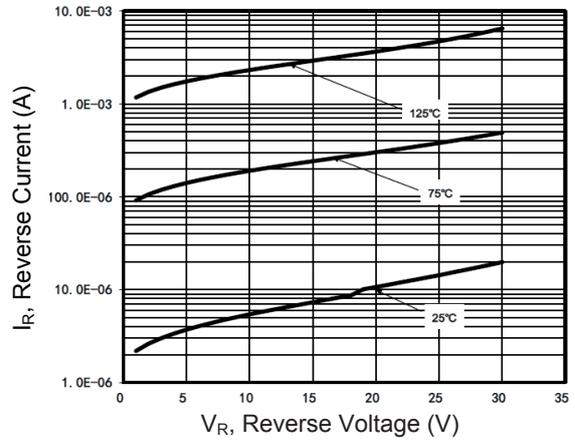


Figure 2. Reverse Characteristics

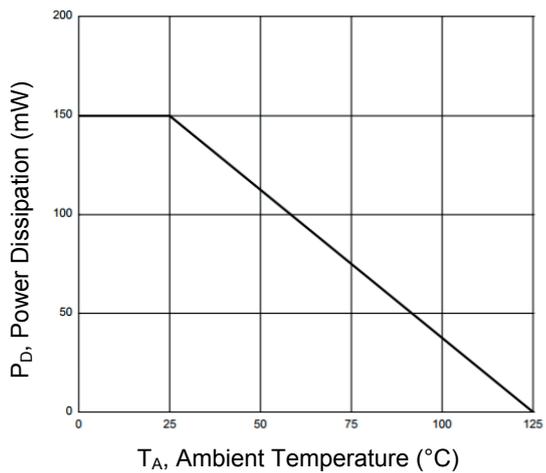


Figure 3. Power Derating Curve

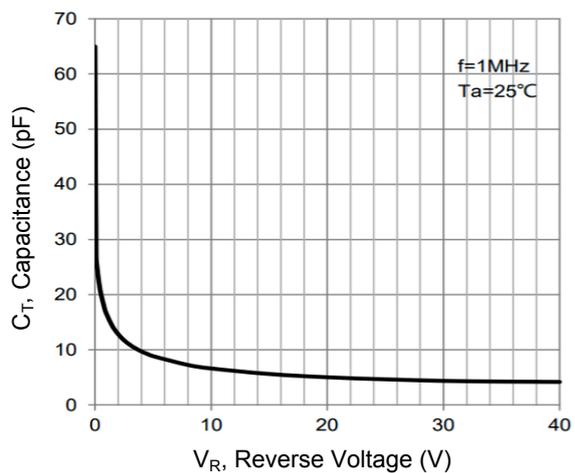
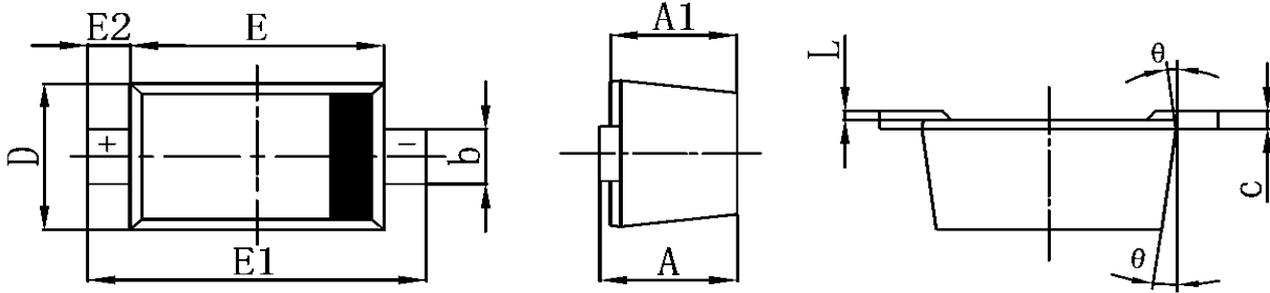


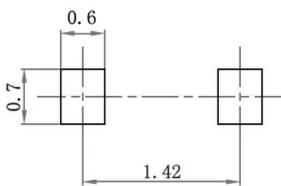
Figure 4. Capacitance Characteristics

Package Outline Dimensions (SOD-523)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: ±0.05mm
3. The pad layout is for reference purposes only

Order Information

Device	Package	Marking	Carrier	Quantity
GSK02V530	SOD-523	C	Tape & Reel	8,000pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com