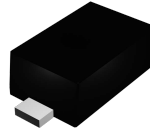


Features

- For general purpose switching applications
- High conductance
- Fast switching



SOD-523



Schematic Diagram

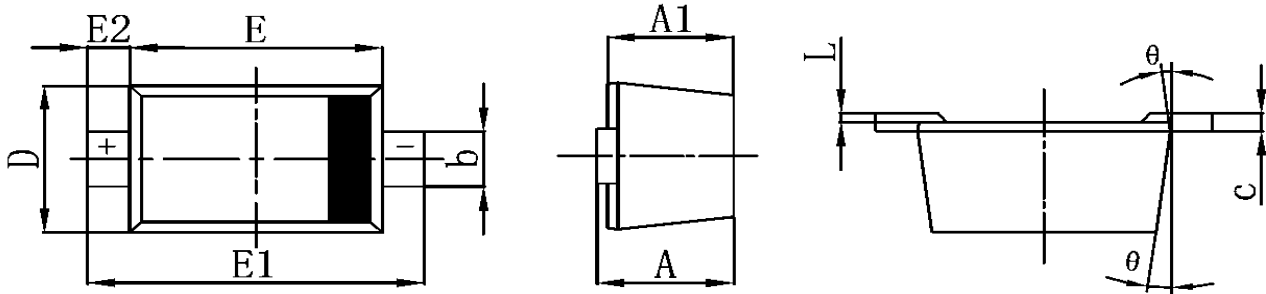
Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	40	V
Repetitive Peak Reverse Voltage	V _{RPM}	40	V
Forward Continuous Current	I _{FM}	200	mA
Non-Repetitive Peak Forward Surge Current (@ t=8.3ms)	I _{FSM}	500	mA
Power Dissipation	P _D	200	mW
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-50 to +125	°C

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

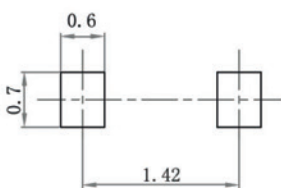
Parameter	Symbol	Conditions	Min	Max	Unit
Forward Voltage	V _F	I _F =1mA	-	0.38	V
		I _F =10mA	-	0.5	
		I _F =40mA	-	1.0	
Reverse Current	I _R	V _R =30V	-	0.21	μA
Reverse Breakdown Voltage	V _{BR}	I _R =10μA	40	-	V
Capacitance	C _T	V _R =0V, f=1MHz	-	5	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{RR} =1mA, R _L =100Ω	-	5	ns

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: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Order Information

Device	Package	Marking	Carrier	Quantity
GSBAS40M	SOD-523	43	Tape & Reel	8,000pcs / Reel

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