

Features

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- High Reliability



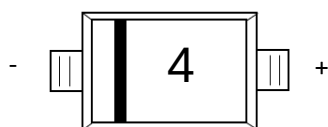
SOD-723 top view



Schematic diagram

Applications

- Low Current Rectification



Marking and pin assignment



Pb-Free



Halogen-Free

Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse Voltage	40	V
I_O	Average Rectified Output Current	100	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	1	A
P_D	Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	1000	$^{\circ}\text{C/W}$
T_J	Operating Junction Temperature Range	$-40\sim+125$	$^{\circ}\text{C}$
T_{stg}	Operation Junction and Storage Temperature Range	$-55\sim+150$	$^{\circ}\text{C}$

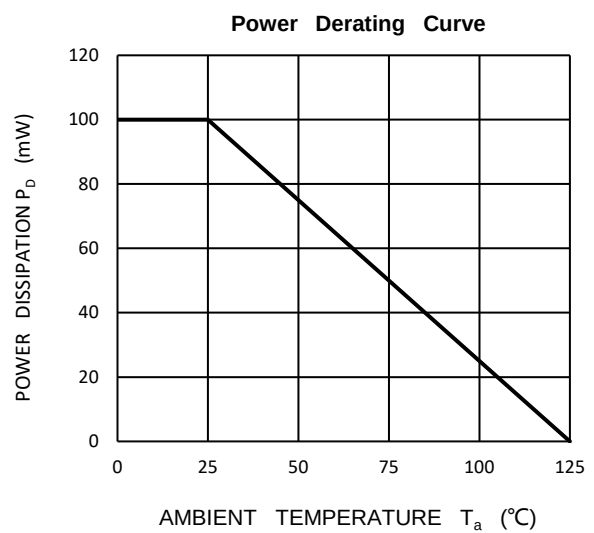
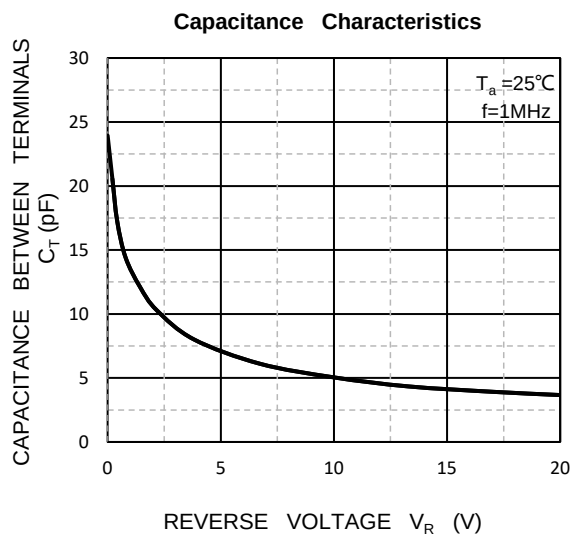
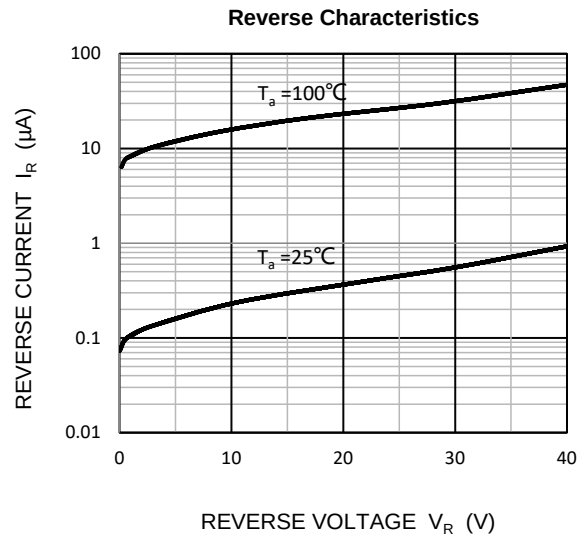
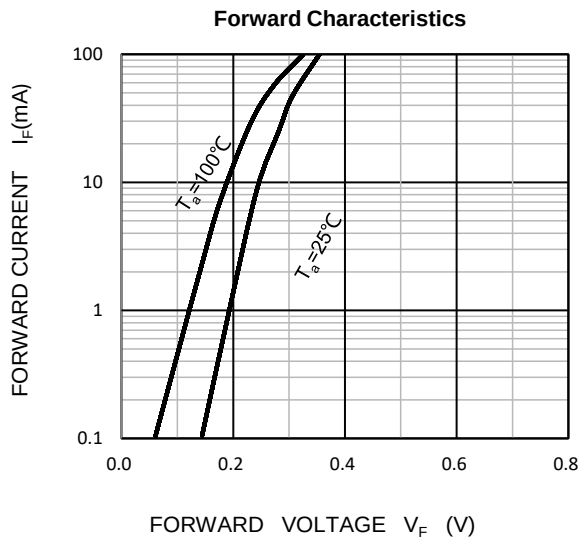
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=100\mu\text{A}$	40	--	--	V
I_R	Reverse voltage leakage current	$V_R=10\text{V}$	--	--	30	μA
$V_{F(1)}$	Forward voltage	$I_F=10\text{mA}$	--	--	0.34	V
$V_{F(2)}$		$I_F=100\text{mA}$	--	--	0.55	
C_T	Capacitance between terminals	$V_R=10\text{V}, f=1\text{MHz}$	--	6	--	pF

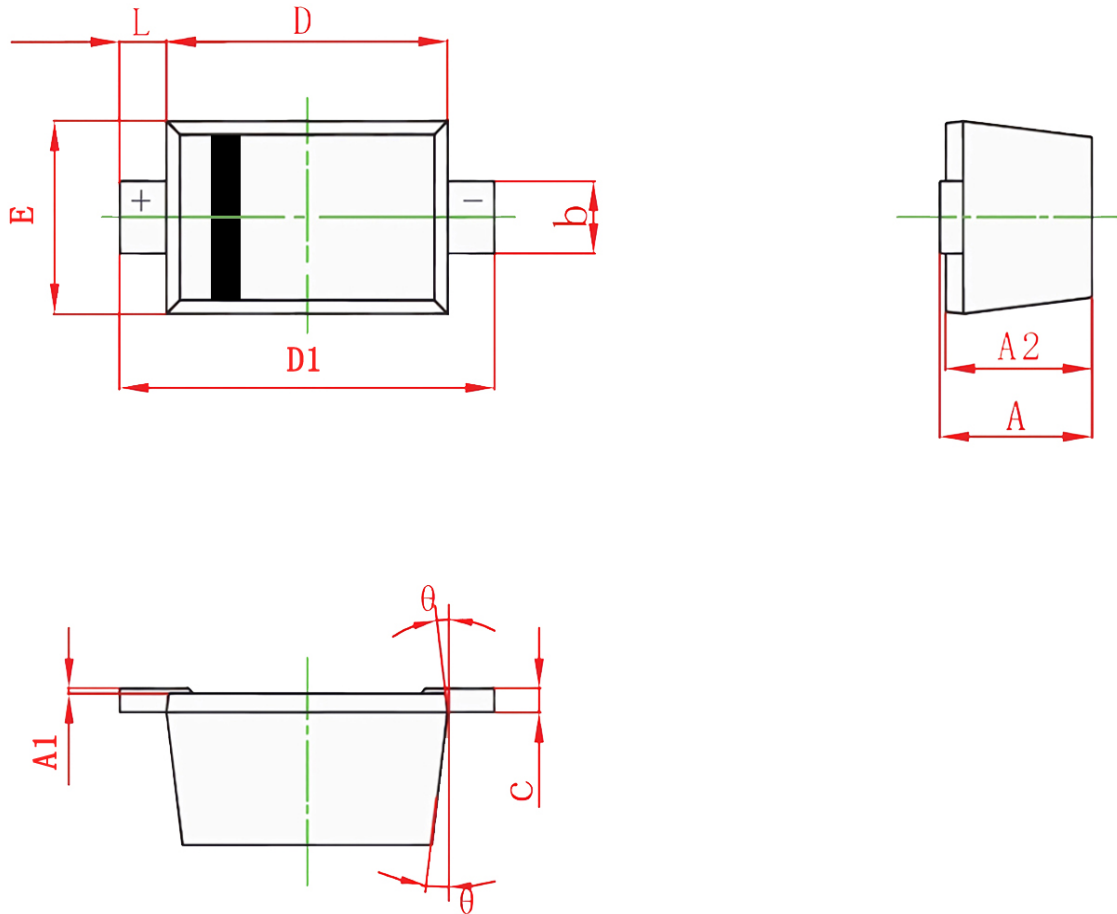
Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB501G-40	SOD-723	4	8,000	120,000	480,000	7"reel

Typical Operating Characteristics



SOD-723 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.525	0.650	0.021	0.026
A1	0.010	0.070	0.000	0.003
A2	0.515	0.580	0.020	0.023
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.900	1.100	0.035	0.043
D1	1.300	1.500	0.051	0.059
E	0.550	0.650	0.022	0.026
L	0.200 REF		0.008 REF	
θ	7°REF		7°REF	