

Features

- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability



SOD-523 top view



Schematic diagram



Marking and pin assignment



Pb-Free


RoHS

Halogen-Free
Maximum Ratings(T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RM}	Non-Repetitive Peak Reverse Voltage	40	V
V _R	DC Blocking Voltage	40	
I _o	Continuous Forward Current	30	mA
I _{FSM}	Non-Repetitive Peak Forward Surge Current @t=8.3ms	200	mA
P _D	Power Dissipation	150	mW
R _{θJA}	Thermal Resistance Junction to Ambient	667	°C/W
T _J	Operating Junction Temperature Range	-40~ +125	°C
T _{STG}	Operating and Storage Temperature Range	-55~ +150	°C

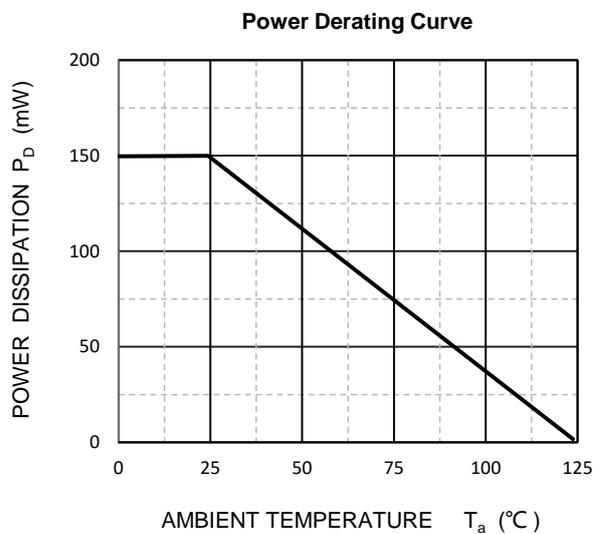
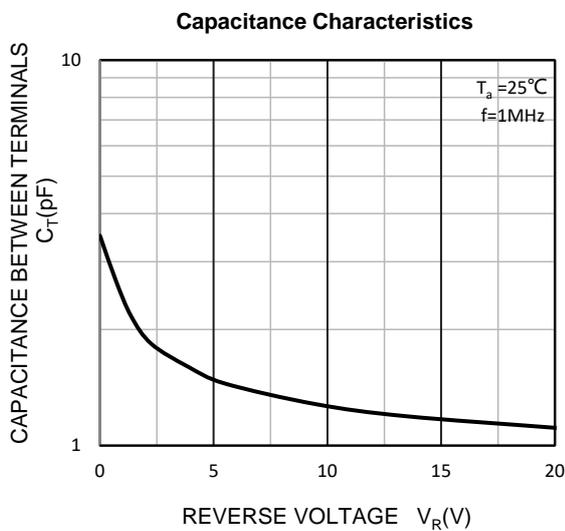
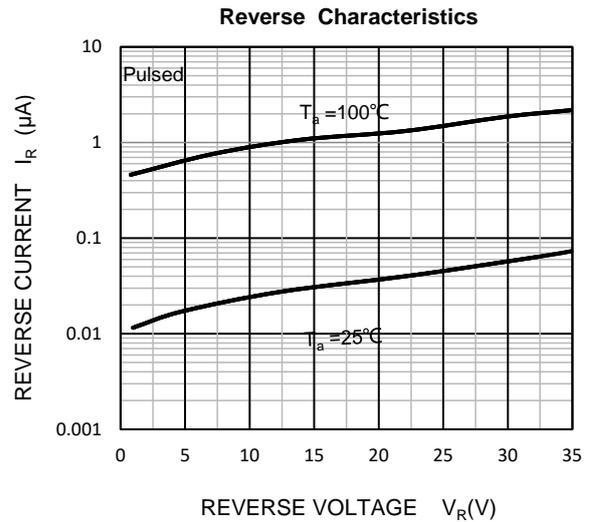
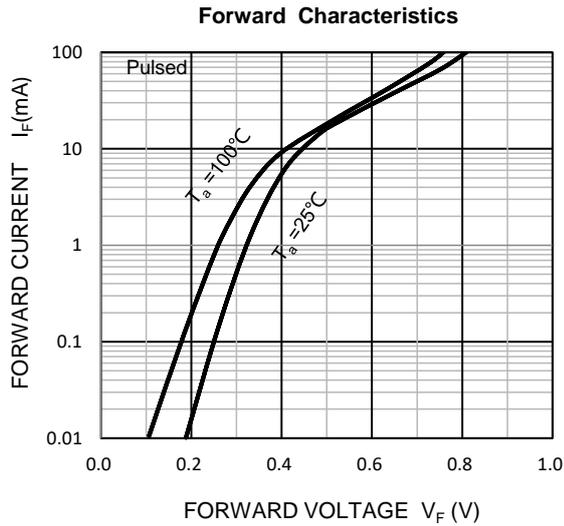
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

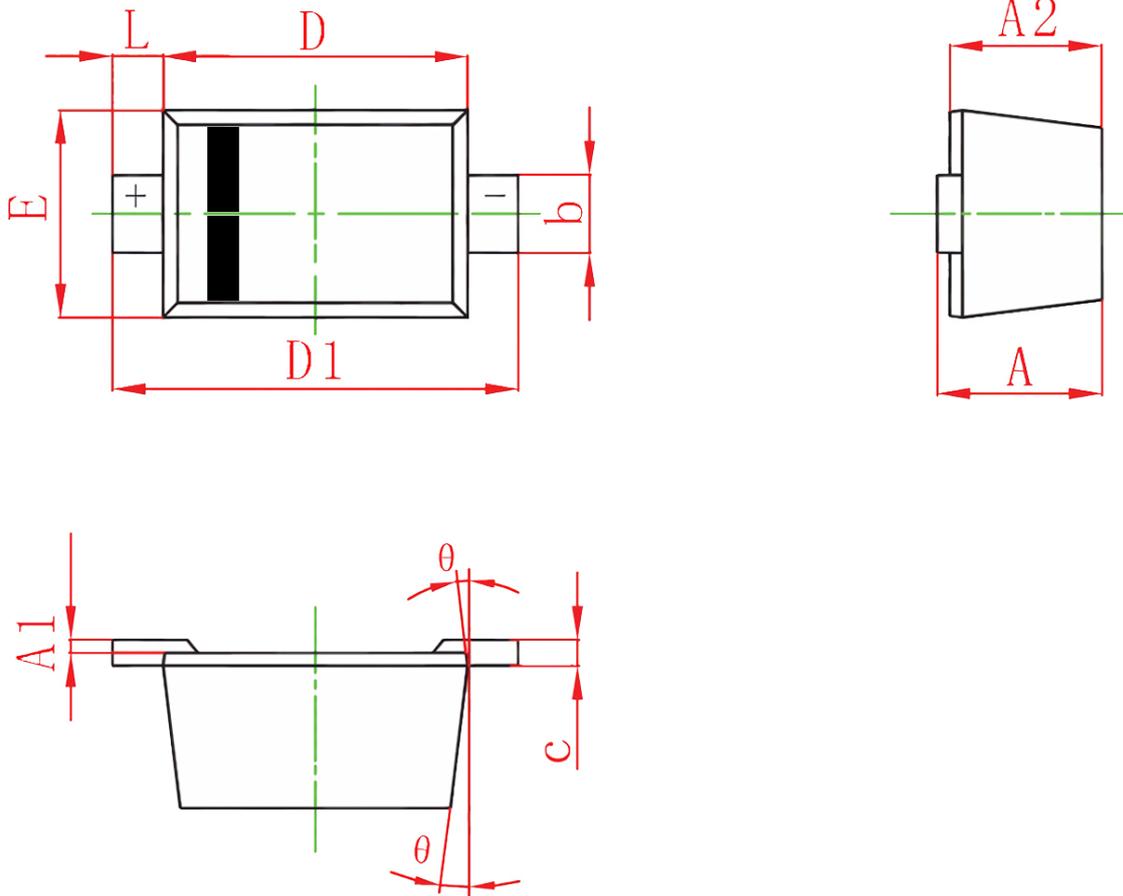
Symbol	Parameter	Condition	Min	Typ	Max	Unit
V _(BR)	Reverse voltage	I _R =1mA	40	--	--	V
I _R	Reverse current	V _R =30V	0.01	--	0.5	μA
V _F	Forward voltage	I _F =1mA	0.20	--	0.37	V
C _T	Capacitance between terminals	V _R =1V, f=1MHz	0.5	2	10	pF

Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB751S-40	SOD-523	5	3,000	45,000	180,000	7"reel

Typical Operating Characteristics



SOD-523 Package information


Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.030
A1	0.010	0.070	0.000	0.003
A2	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	1.100	1.300	0.043	0.051
D1	1.500	1.700	0.059	0.067
E	0.750	0.850	0.030	0.033
L	0.200 REF		0.008 REF	
θ	7°REF		7°REF	