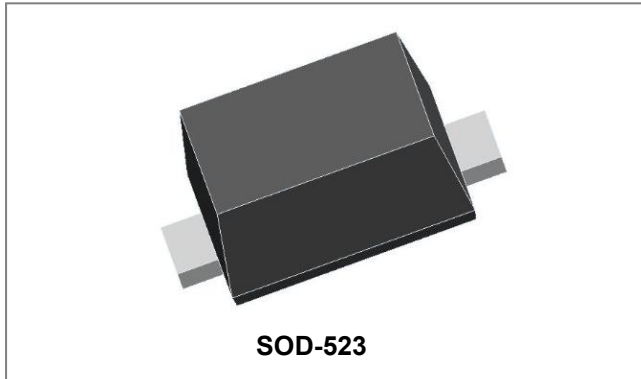


RB751S-40 SCHOTTKY BARRIER DIODE



Features

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

Circuit Diagram



Maximum Ratings@T_A=25°C unless otherwise specified

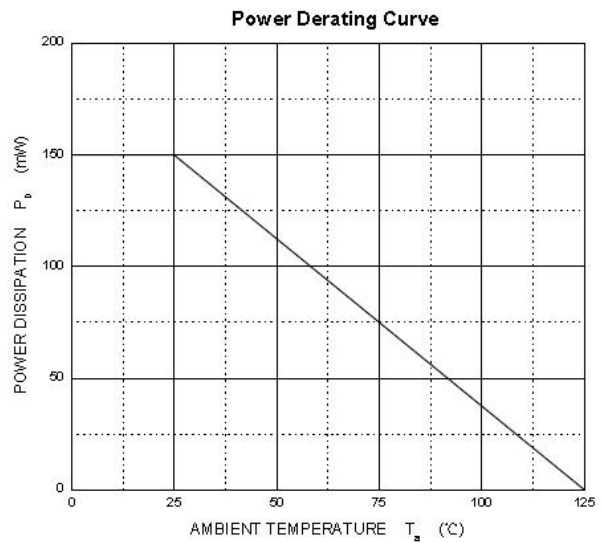
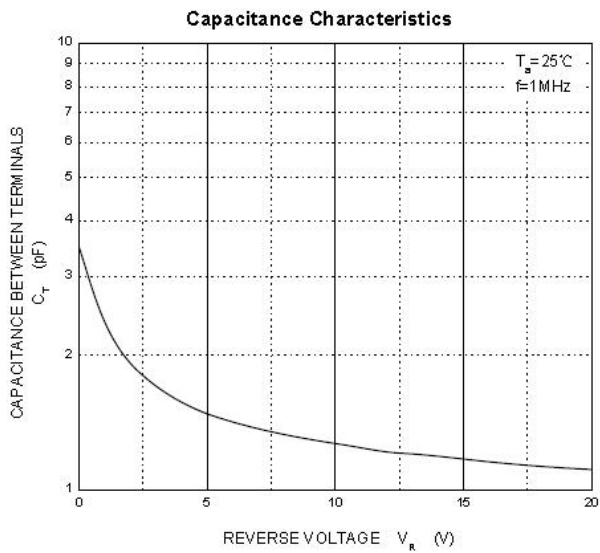
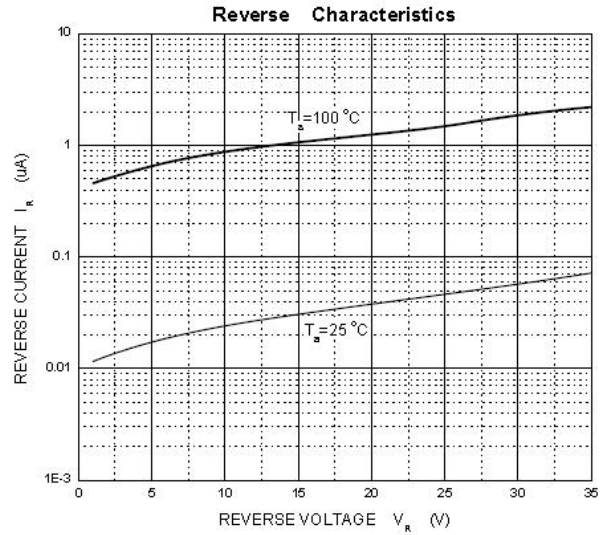
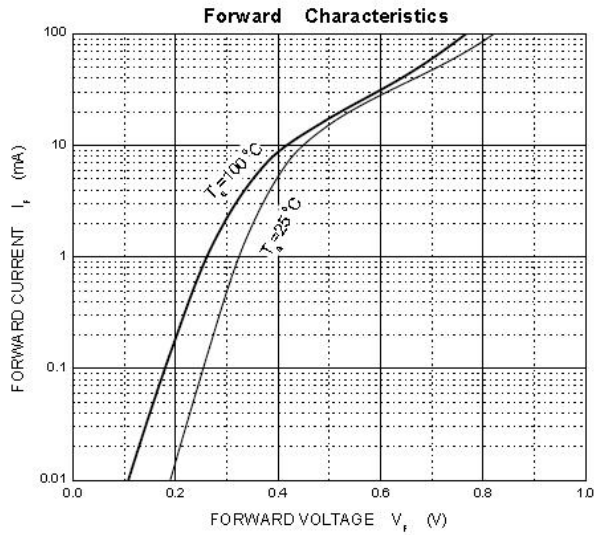
Parameter	Symbol	Value	Units
Peak Reverse Voltage	V _{RM}	40	V
DC Reverse Voltage	V _R	30	V
Mean rectifying current	I _O	30	mA
Non-repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	200	mA
Power Dissipation	P _D	150	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	667	°C/W
Junction Temperature	T _j	125	°C
Storage Temperature	T _{stg}	-55~+150	°C

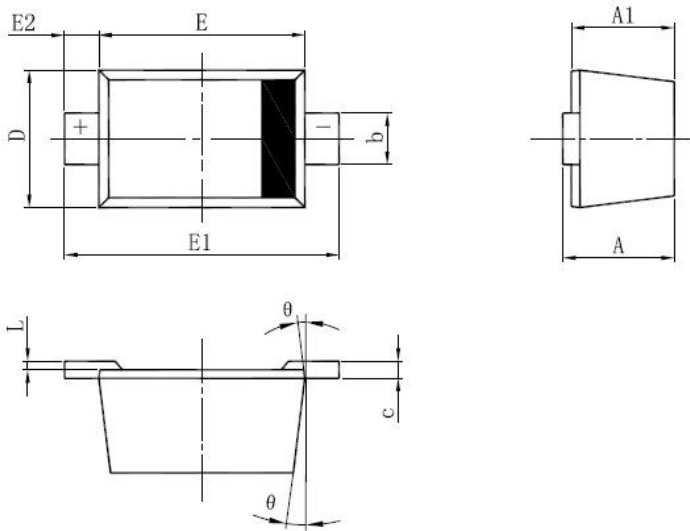
Electrical Characteristics@T_A=25°C unless otherwise specified

Parameter	Symbol	Test conditions	Min	Typ	Max	Units
Reverse current*	I _R	V _R =30V	-	-	0.5	μA
Forward voltage*	V _F	I _F =1mA	-	-	0.37	V
Capacitance between terminals	C _T	V _R =1V, f=1MHz	-	2	-	pF

* Pulse width < 300 μs, duty cycle < 2%

Ratings and Characteristics Curves



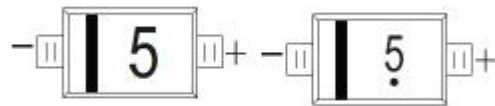
Mechanical Dimensions SOD-523


SYMBOL	Millimeters		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	

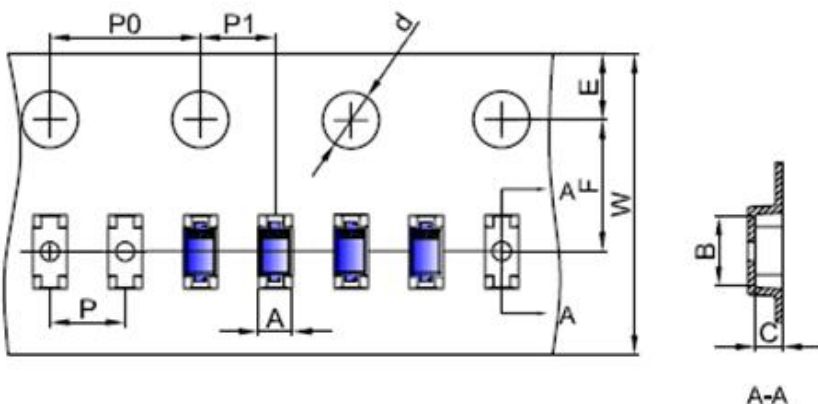
Ordering Information

Device	Package	Shipping
RB751S-40	SOD-523 (Pb-Free)	8000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram


The marking bar indicates the cathode
 Solid dot = Green molding compound device,
 if none, the normal device.

Carrier Tape & Reel Specification SOD-523


SYMBOL	Millimeters	
	Min.	Max.
A	0.85	0.95
B	1.89	1.99
C	0.68	0.78
d	1.40	1.60
E	1.65	1.85
F	3.40	3.60
P	1.90	2.10
P0	3.90	4.10
P1	1.90	2.10
W	7.90	8.30

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