BORN SEMICONDUCTOR

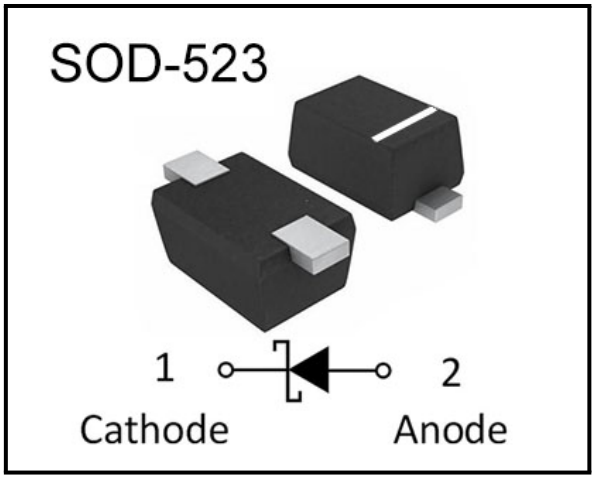
RB751S-40

Schottky Barrier Diode

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

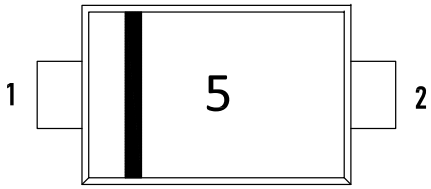
Package



General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-523 Plastic Package

Marking



Ordering information

Order code	Package	Marking	Base qty	Delivery mode
RB751S-40	SOD-523	5	5K	Tape and reel

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

Symbol	Parameter	Value	Unit
V_{RM}	Peak Reverse Voltage	40	V
V_R	DC Reverse Voltage	30	V
I_O	Mean Rectifying Current	0.03	A
I_{FSM}	Peak Forward Surge Current	0.2	A
P_D	Power Dissipation	150	mW
T_J	Junction Temperature	125	°C
T_{STG}	Storage Temperature	-55 to +150	°C

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RB751S-40

Schottky Barrier Diode

Electrical Characteristics(@T_A=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Typ.	Max.	Unit
V_F	Forward Voltage	I_F = 1mA	–	0.37	V
I_R	Reverse Current	V_R=30V	–	2.0	uA
C_T	Capacitance Between Terminals	V_R=1V,f=1.0MHZ	2	–	pF

Typical Performance Characteristics(T_J = 25 °C, unless otherwise noted)

Figure 1: Forward Characteristics

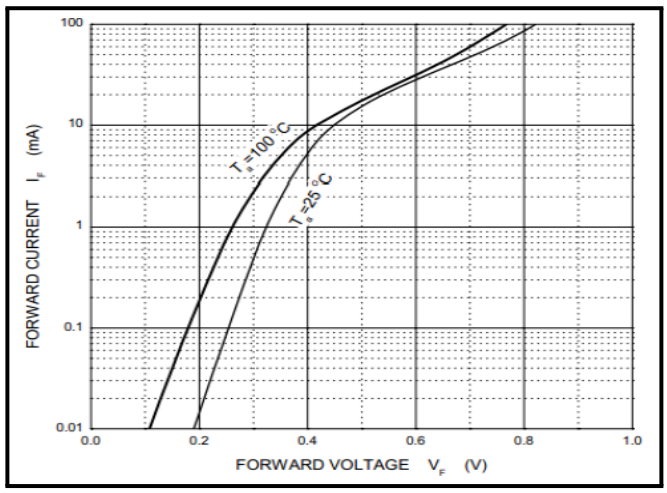


Figure 2: Reverse Characteristics

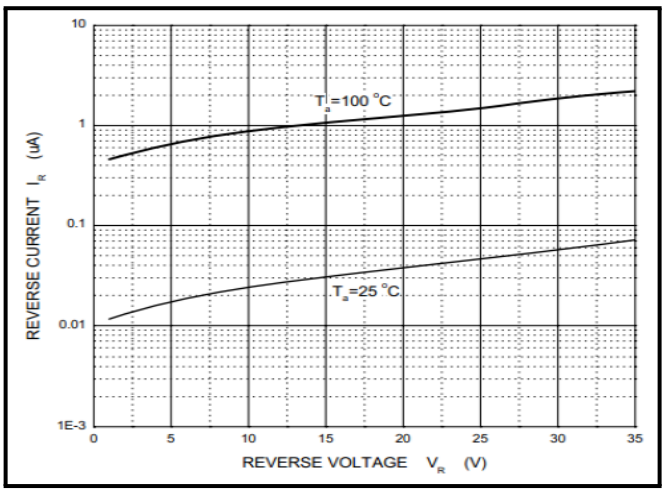


Figure 3: Capacitance Characteristics

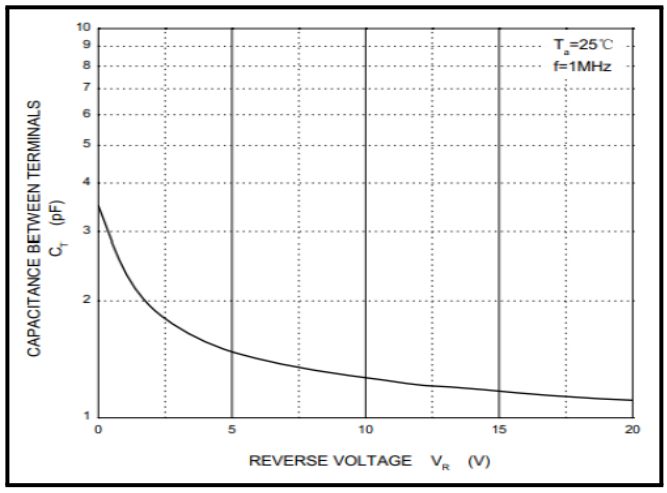
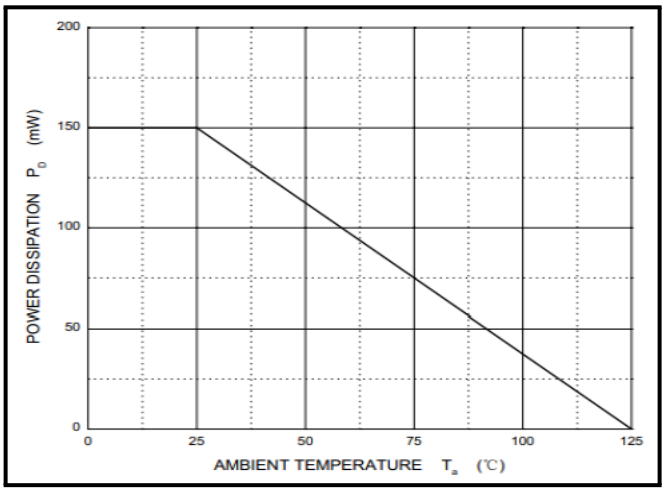


Figure 4: Power Derating Curve



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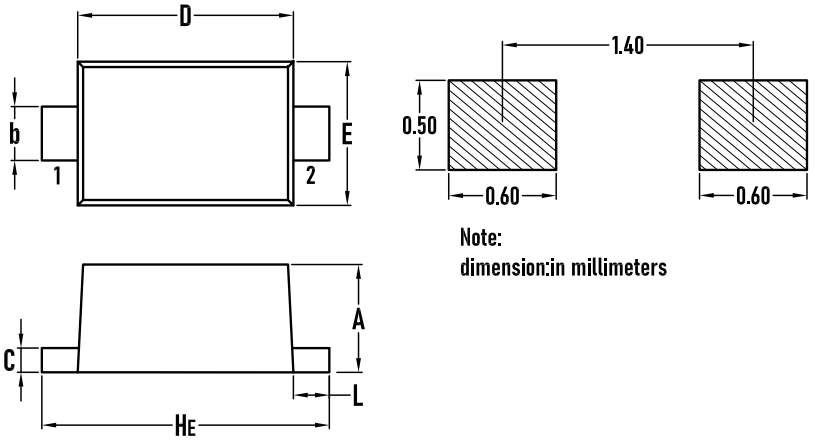
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RB751S-40

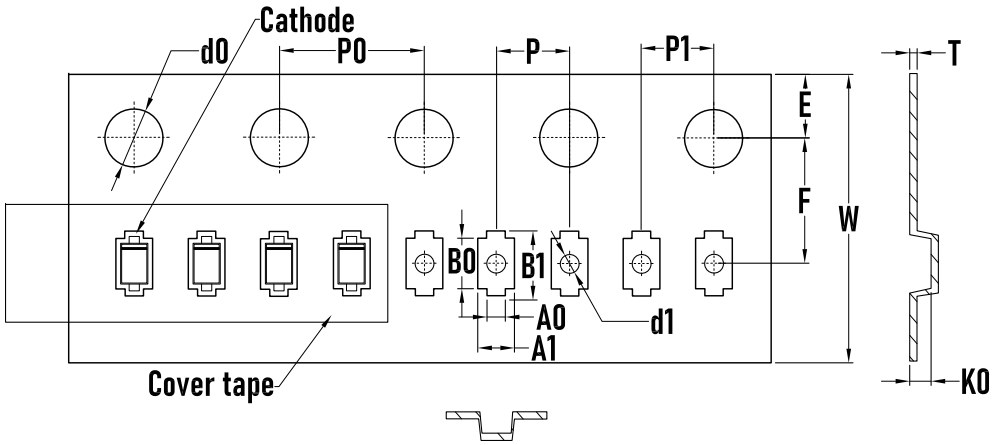
Schottky Barrier Diode

Outline Drawing - SOD-523



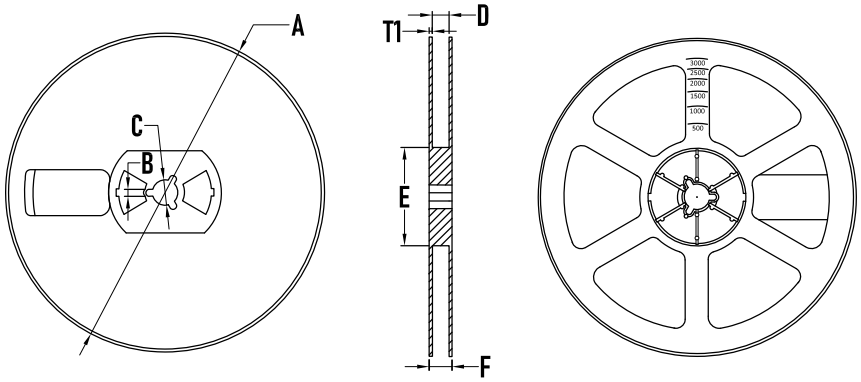
SYMBOL	MILLIMETER		INCHES	
	MIN.	MAX.	MIN.	MAX.
A	0.50	0.70	0.020	0.028
b	0.25	0.35	0.010	0.014
C	0.07	0.20	0.0028	0.0079
D	1.10	1.30	0.043	0.051
E	0.70	0.90	0.028	0.035
H_E	1.50	1.70	0.059	0.067
L	0.15	0.25	0.006	0.010

Packaging Tape - SOD-523



SYMBOL	MILLIMETER
A0	0.50±0.10
A1	1.00±0.10
B0	1.30±0.10
B1	1.80±0.10
d0	1.55±0.10
d1	0.50±0.05
E	1.75±0.10
F	3.50±0.10
K0	0.65±0.10
P	2.00±0.10
P0	4.00±0.10
P1	2.00±0.10
W	8.00±0.30
T	0.2 ±0.05

Packaging Reel



SYMBOL	MILLIMETER
A	177.8±0.2
B	2.7±0.2
C	13.5±0.2
D	9.6±0.3
E	54.5±0.2
F	12.3±0.3
T1	1.0±0.2
Quantity	5000PCS

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