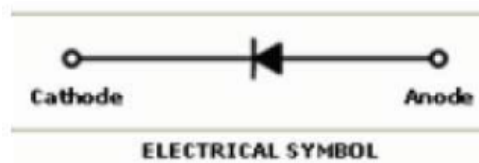


## 200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Schottky Barrier Diode

### Specification Features

- ◆ Low Forward Voltage Drop
- ◆ Flat Lead SOD-523 Small Outline Plastic Package
- ◆ Extremely Small SOD-523 Package
- ◆ Surface Device Type Mounting
- ◆ RoHS Compliant
- ◆ Green EMC
- ◆ Matte Tin(Sn)Lead Finish
- ◆ Band Indicates Cathode
- ◆ P/N suffix V means AEC-Q101 qualified, eg:RB520S-40V
- ◆ P/N suffix V means Halogen-free



### Device Marking Codes

Device Type	Device Marking
RB520S-40V	3B

### Absolute Maximum Ratings $T_A=25^{\circ}\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	200	mW
$T_{STG}$	Storage Temperature Range	-55 to +125	$^{\circ}\text{C}$
$T_J$	Operating Junction Temperature	+125	$^{\circ}\text{C}$
$V_R$	Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	350	mA

These ratings are limiting values above which the serviceability of the diode may be impaired.



## 200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Schottky Barrier Diode

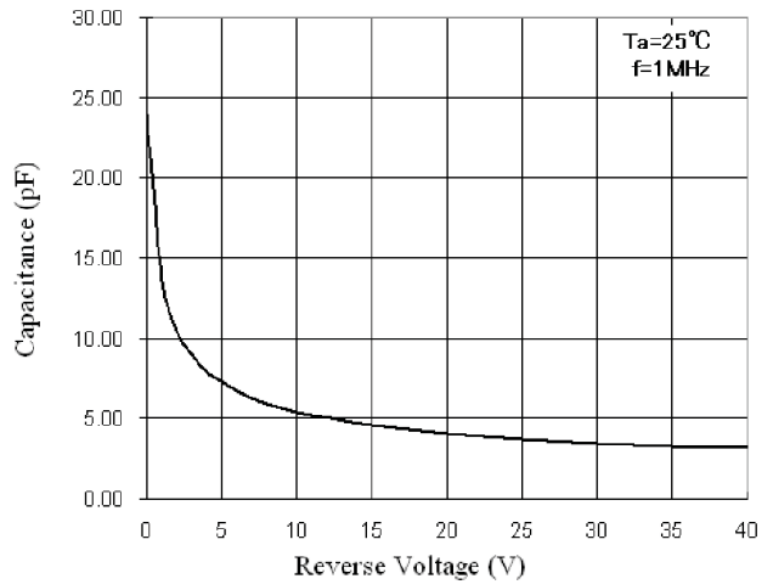
### Electrical Characteristics T<sub>A</sub> =25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =10 μA	40	-	Volts
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> =10V	-	1	μA
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> =200mA	-	0.6	Volts

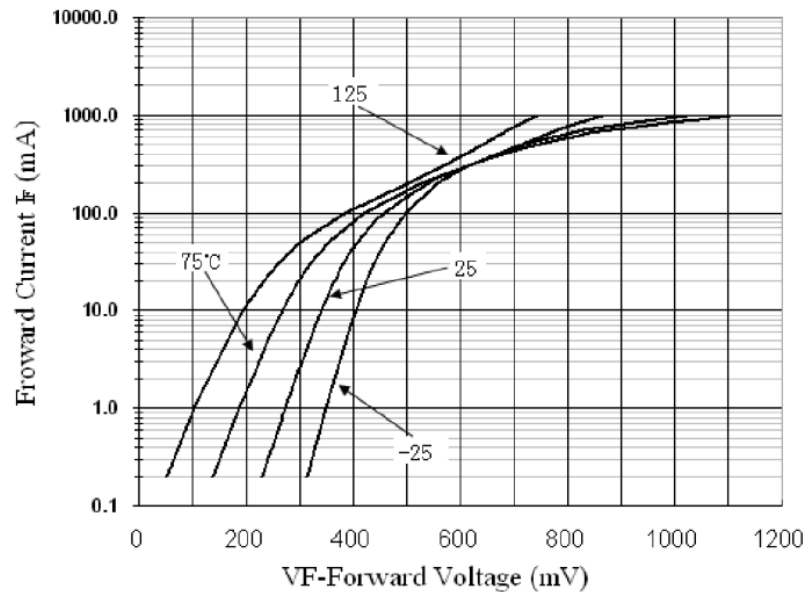
### Rating And Characteristics Curves (RB520S-40V)

#### Typical Performance Characteristics

Total Capacitance

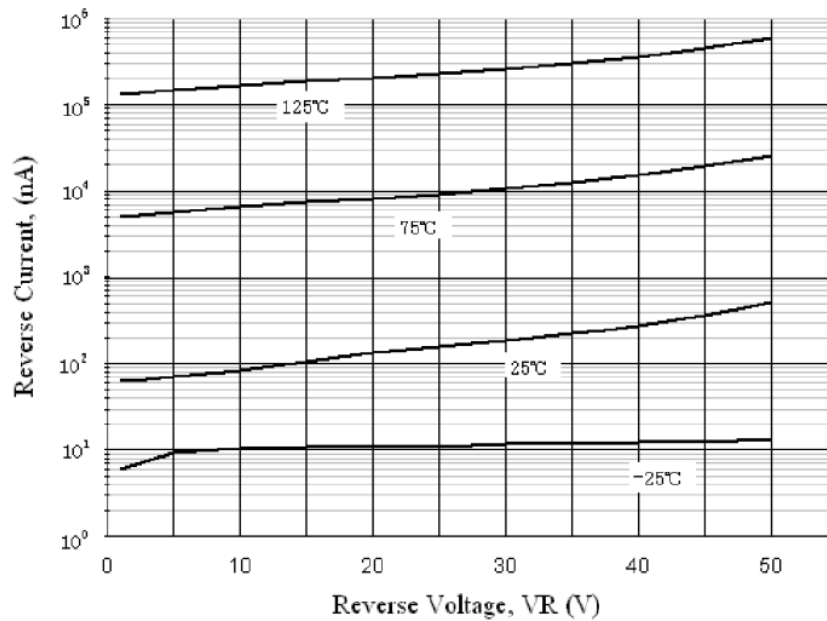


Forward Voltage vs Ambient Temperature



## 200mW SOD-523 SURFACE MOUNT Very Small Outline Flat Lead Plastic Package Schottky Barrier Diode

### Reverse Current Reverse Voltage Reverse



### Flat Lead SOD-523 Package Outline

