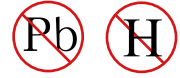




200mW SOD-523 SURFACE MOUNT
Very Small Outline Flat Lead Plastic Package
Schottky Barrier Diode

**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	200	mA

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



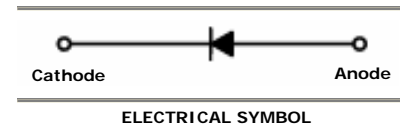
SOD-523 Flat Lead

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

DEVICE MARKING CODES:

Device Type	Device Marking
RB520S-40	3B

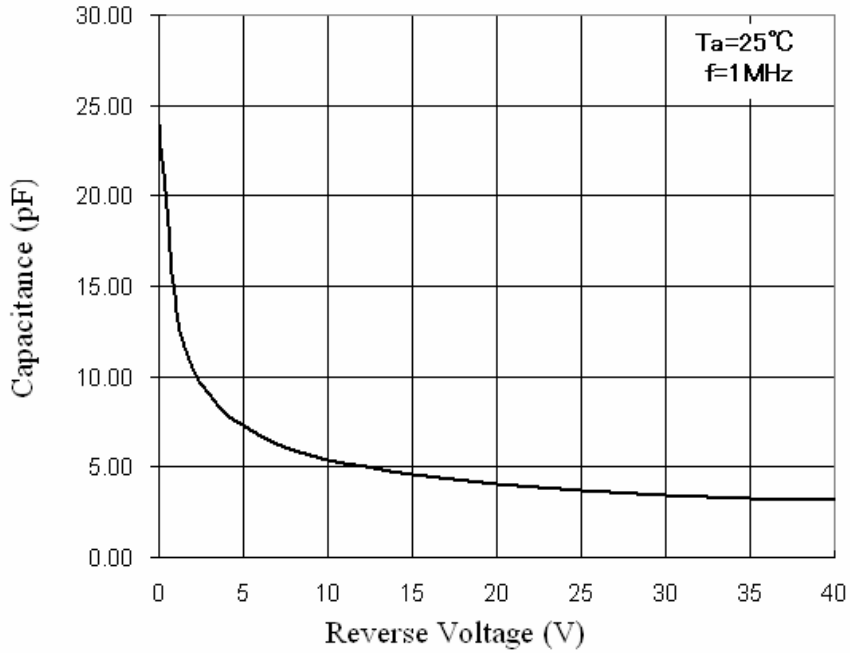
**Electrical Characteristics** $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=10\mu\text{A}$	40		Volts
I_R	Reverse Leakage Current	$V_R=10\text{V}$		1	μA
V_F	Forward Voltage	$I_F=200\text{mA}$		0.6	Volts

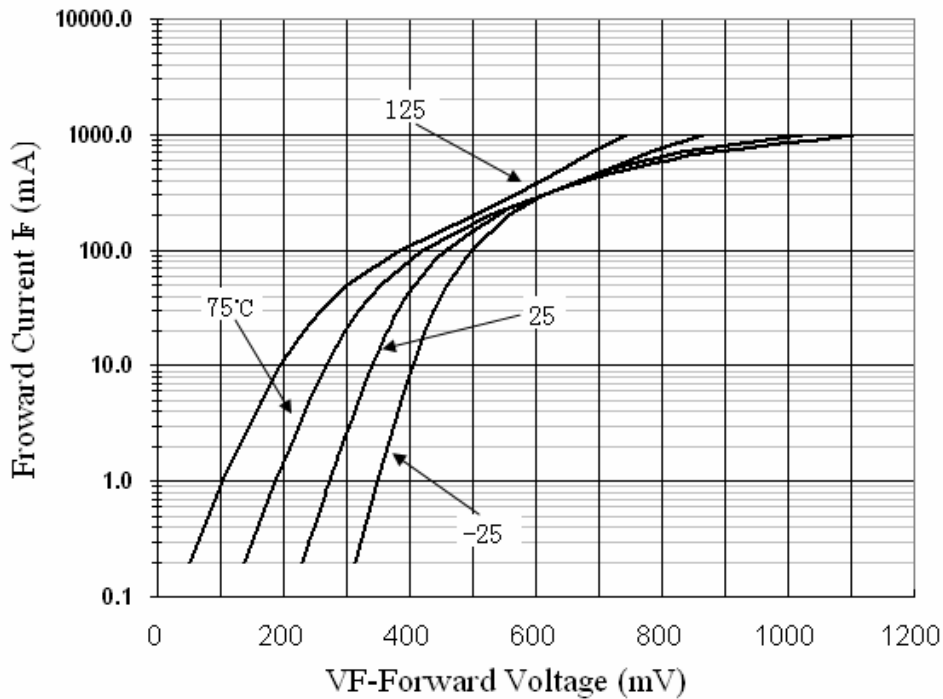
DEVICE CHARACTERISTICS

RB520S-40

Total Capacitance



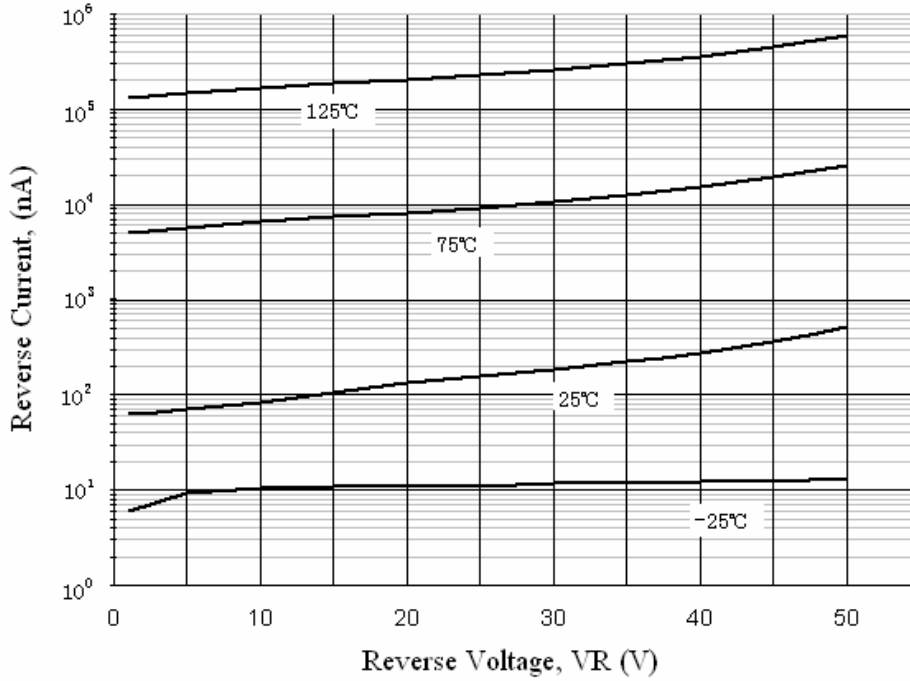
Forward Voltage vs Ambient Temperature



PACKAGE OUTLINE & DIMENSIONS

RB520S-40

Reverse Current vs Reverse Voltage



Flat Lead SOD-523 Package Outline

