

# RB520S-30

## RB520S-30 Schottky Barrier Diode

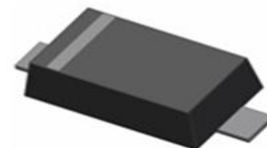
### General description

Schottky Barrier Diode in a SOD-523 Plastic Package.

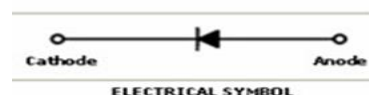
### FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Surface Device Type Mounting
- Extremely Small SOD-523 Package
- Green EMC
- RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

### Green Product



SOD-523 Flat Lead



ELECTRICAL SYMBOL

### Absolute Maximum Ratings T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	200	mW
T <sub>STG</sub>	Storage Temperature Range	-55 to +125	°C
T <sub>J</sub>	Operating Junction Temperature	+125	°C
V <sub>R</sub>	Reverse Voltage	30	V
I <sub>F(AV)</sub>	Average Forward Current	200	mA
I <sub>FSM</sub>	Peak Forward Surge Current (At 8.3ms single half sine-wave)	1	A

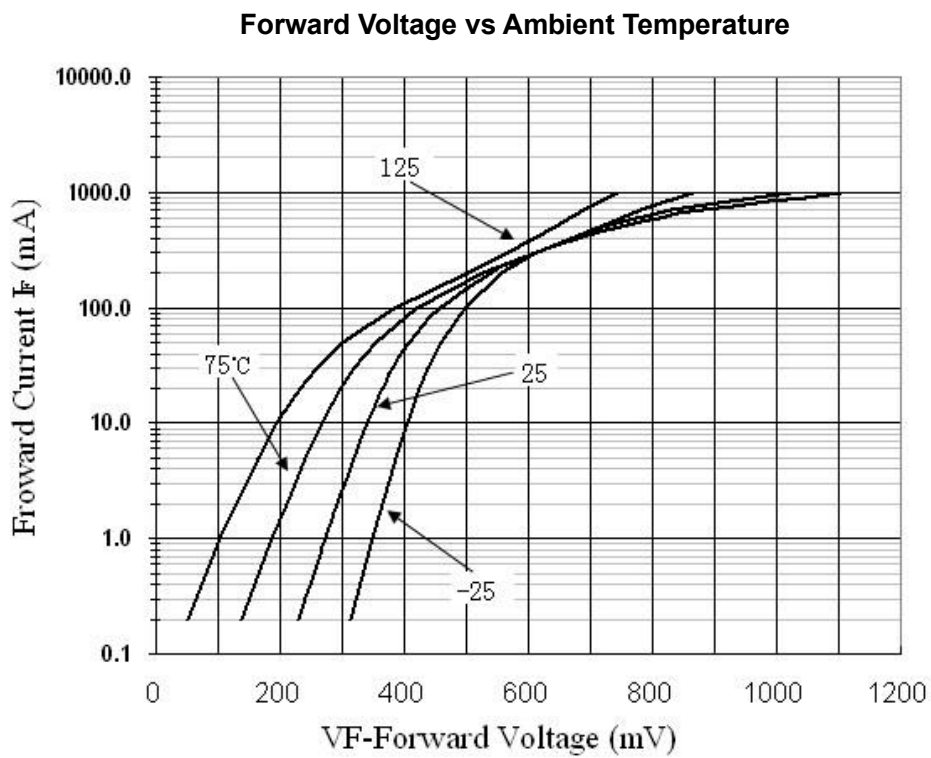
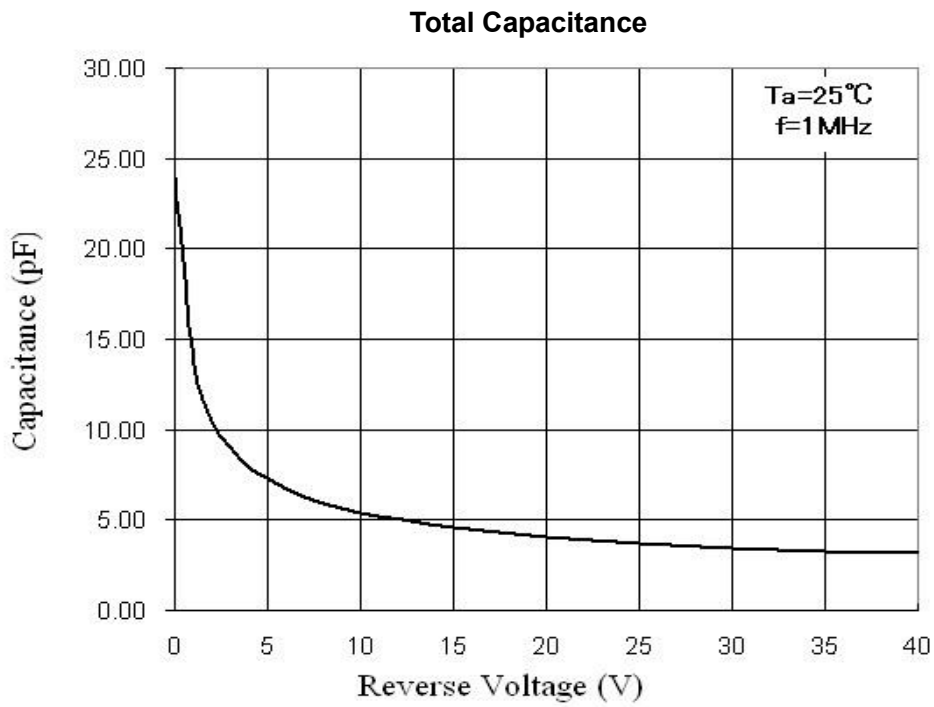
### Device Marking Code:

Device Type	Device Marking
RB520S-30	B or C

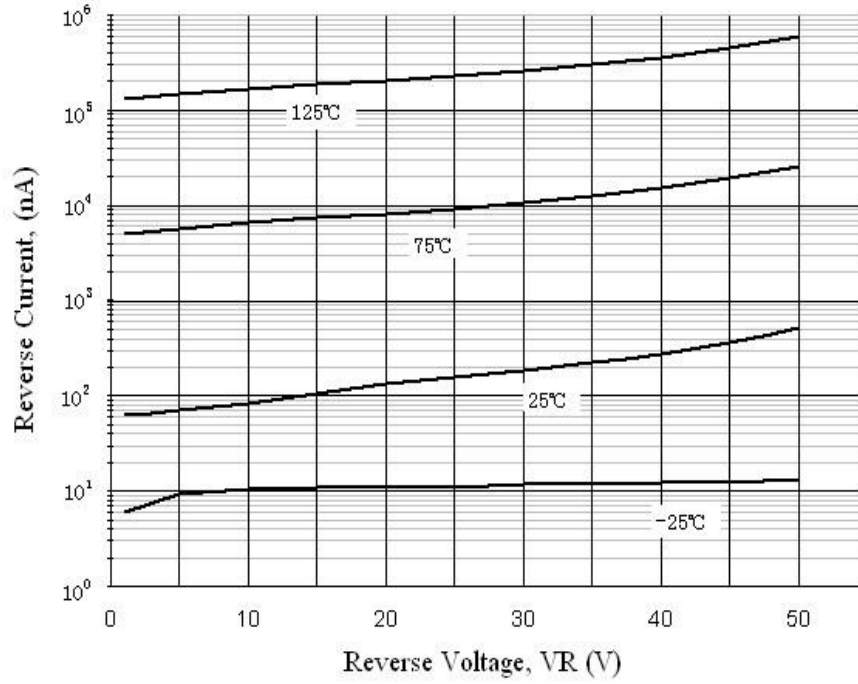
### Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B <sub>V</sub>	Breakdown Voltage	I <sub>R</sub> =500μA	30		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

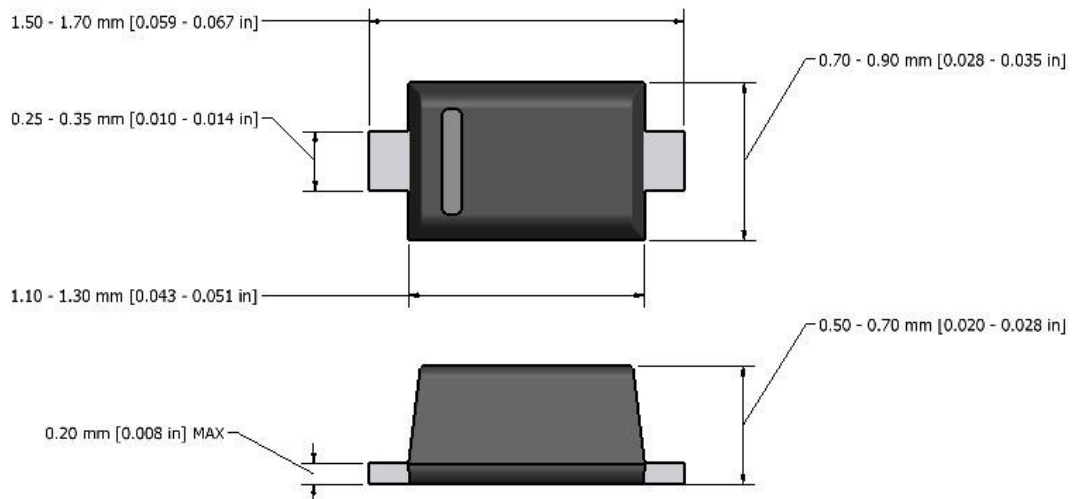
## RATING AND CHARACTERISTIC CURVES



## Reverse Current vs Reverse Voltage Reverse



## Flat Lead SOD-523 Package Outline



**Note:** Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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