



RB521S-30Q Schottky Barrier Diode

Features

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- AEC-Q101 qualified
- ROHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-523



Marking: C

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	-55to+125	$^{\circ}\text{C}$
T_J	Operating Junction Temperature	+125	$^{\circ}\text{C}$
V_R	Reverse Voltage	30	V
$I_{F(AV)}$	Average Forward Current	200	mA
I_{FSM}	Peak Forward Surge Current (At 8.3ms single half sine-wave)	1	A

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

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Breakdown Voltage at $I_R=500\mu\text{A}$	B_V	30			Volts
Reverse Leakage Current at $V_R=10\text{V}$	I_R			30	μA
Forward Voltage at $I_F=200\text{mA}$	V_F			0.5	Volts



Electrical Characteristics Curve

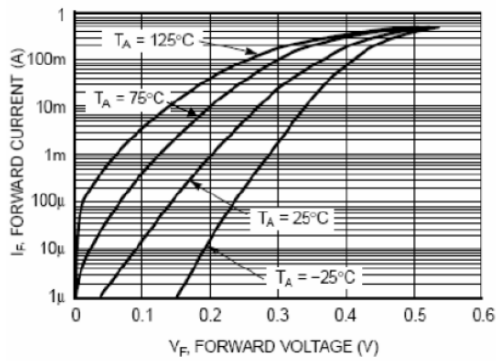


Figure 1. Forward Characteristics

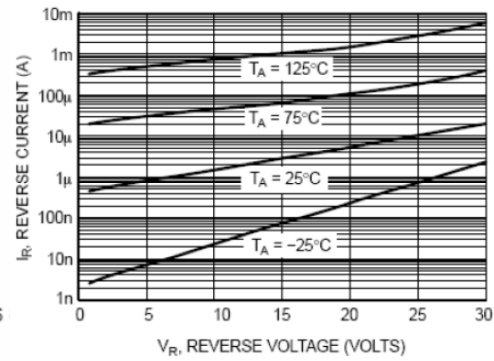
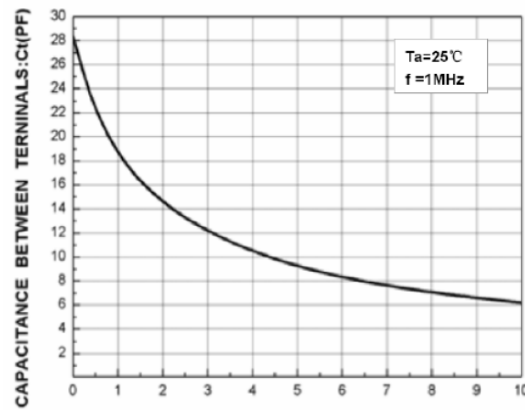


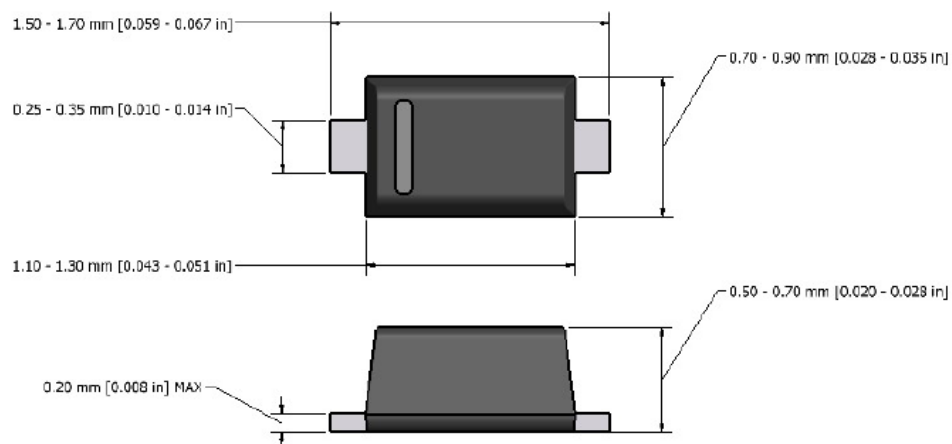
Figure 2. Reverse Characteristics



REVERSE VOLTAGE : V_R (V)

Figure3.Total Capacitance

SOD-523 Package Outline Dimensions



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