SEMICONDUCTOR

DATA SHEET

RB521S-30

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

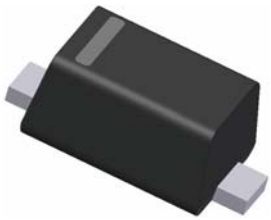
DEVICE MARKING CODES:

Device Type	Device Marking
RB521S-30	5M

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-55 to +125	°C
T_J	Operating Junction Temperature	+125	°C
V_R	Reverse Voltage	30	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
- Moisture Sensitivity Level 1
- Pb Free Version and RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode



ELECTRICAL SYMBOL

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	I_R=500μA	30		Volts
I_R	Reverse Leakage Current	V_R=10V		30	μA
V_F	Forward Voltage	I_F=200mA		0.5	Volts

DEVICE CHARACTERISTICS

RB521S-30

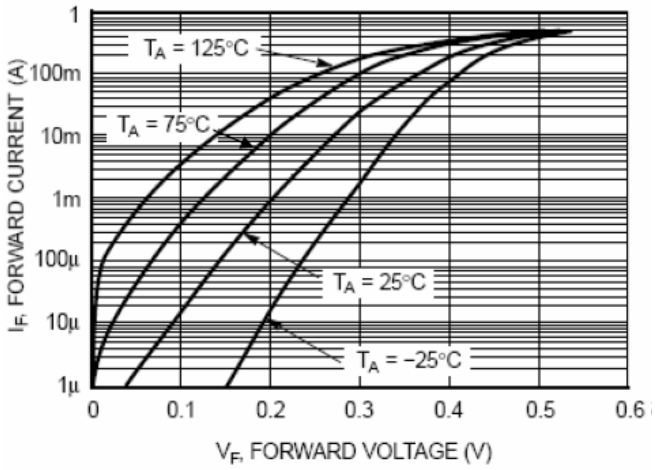


Figure 1. Forward Characteristics

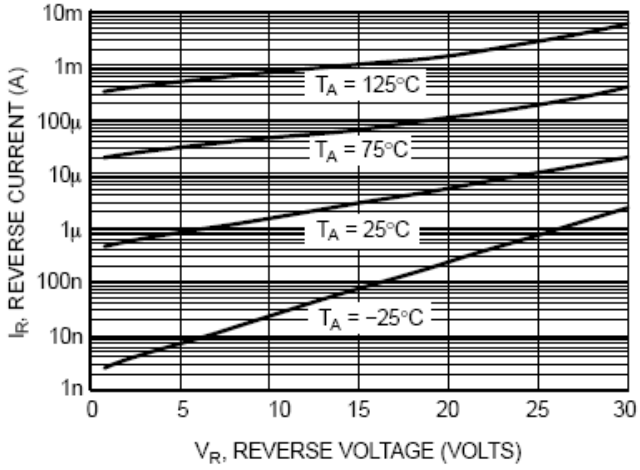
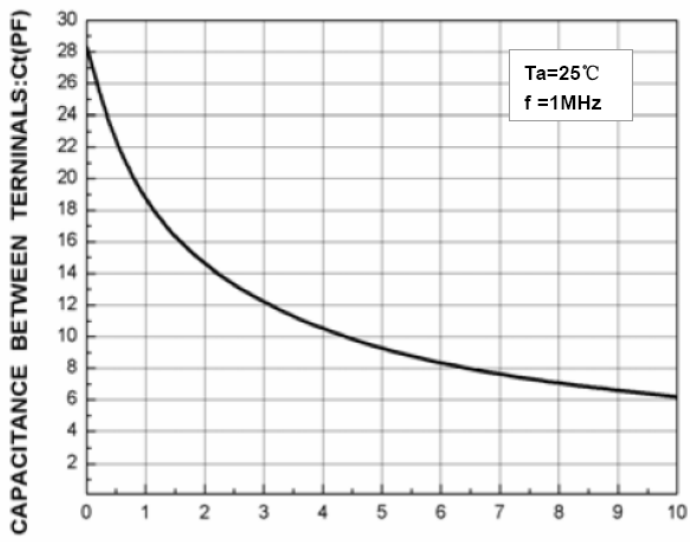


Figure 2. Reverse Characteristics



REVERSE VOLTAGE : VR(V)

Figure3.Total Capacitance

PACKAGE OUTLINE & DIMENSIONS

RB521S-30

