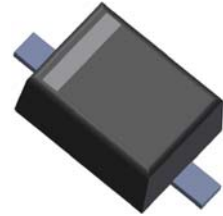




## 200mW SOD-323 SURFACE MOUNT Small Outline Flat Lead Plastic Package Schottky Barrier Diode

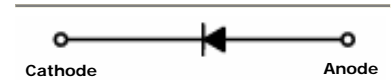


SOD-323 Flat Lead

**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	-65 to +125	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$V_{RM}$	Repetitive Peak Reverse Voltage	30	V
$V_R$	Maximum DC Blocking Voltage	20	V
$I_{F(AV)}$	Average Forward Rectified Current	500	mA
$I_{FSM}$	Peak Forward Surge Current (8.3ms Single Half-wave)	5	A

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



ELECTRICAL SYMBOL

**Specification Features:**

- Low Forward Voltage Drop
- Flat Lead SOD-323 Small Outline Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

**DEVICE MARKING CODE:**

Device Type	Device Marking
RB551V-30FL	B3

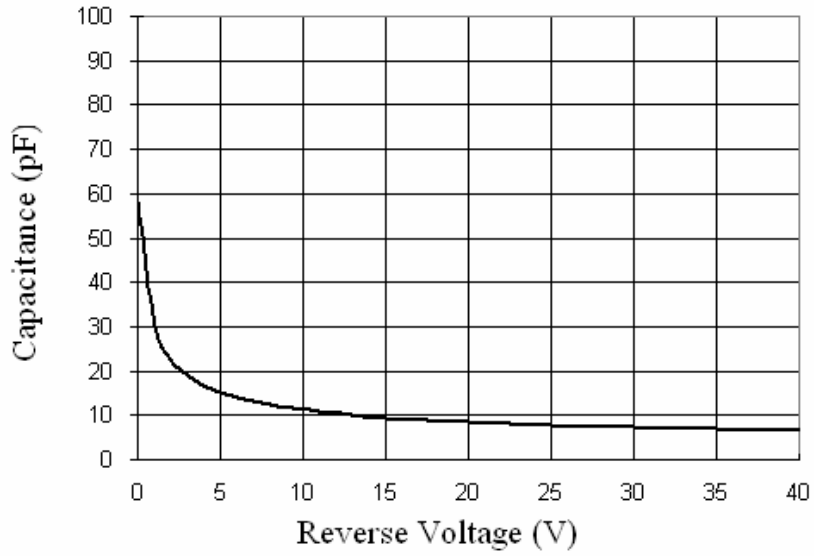
**Electrical Characteristics**  $T_A = 25^\circ\text{C}$  unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
$B_V$	Breakdown Voltage	$I_R=500\mu\text{A}$	30		Volts
$I_R$	Reverse Leakage Current	$V_R=20\text{V}$		100	$\mu\text{A}$
$V_F$	Forward Voltage	$I_F=100\text{mA}$		0.360	Volts
		$I_F=500\text{mA}$		0.470	

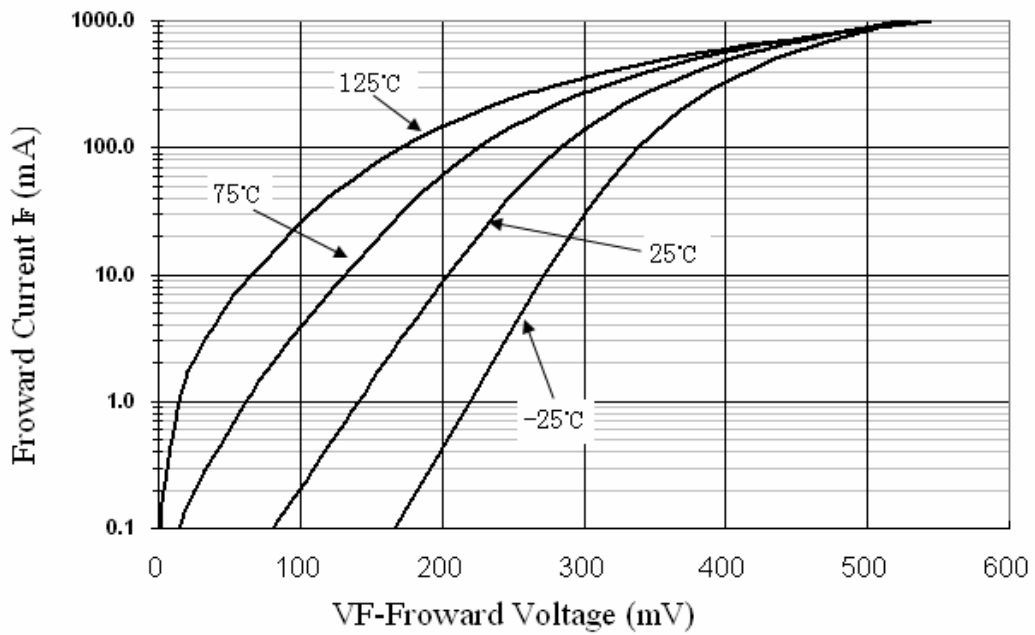
# DEVICE CHARACTERISTICS

## RB551V-30FL

### Total Capacitance



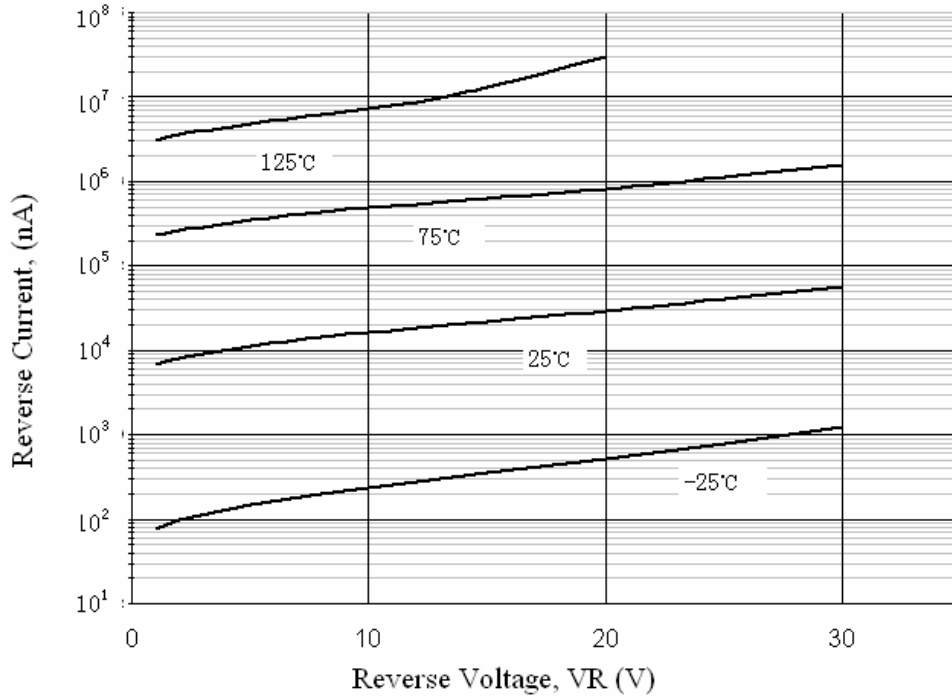
### Forward Voltage vs Ambient Temperature



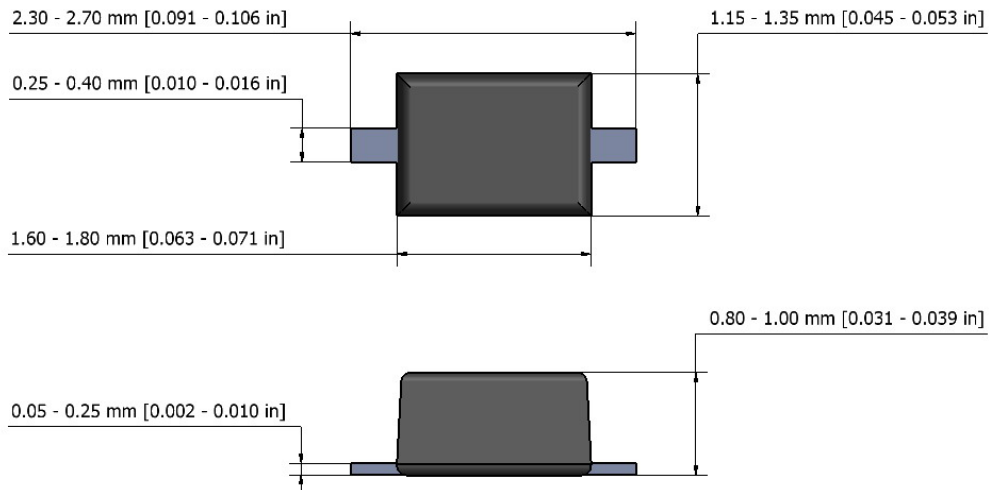
# PACKAGE OUTLINE & DIMENSIONS

## RB551V-30FL

Reverse Current vs Reverse Voltage



### SOD-323 Package Outline



NOTE: The above package outline is similar to JEITA SC-90.