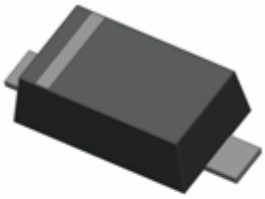
200mW SOD-323 SURFACE MOUNT
Small Outline Flat Lead Plastic Package
Schottky Barrier Diode

Green Product



SOD-323 Flat Lead

ELECTRICAL SYMBOL

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	-65 to +125	°C
T_J	Operating Junction Temperature	+125	°C
V_{RM}	Repetitive Peak Reverse Voltage	40	V
V_R	Maximum DC Blocking Voltage	40	V
$I_{F(AV)}$	Average Forward Rectified Current	100	mA
I_{FSM}	Peak Forward Surge Current (8.3mS Single Half-wave)	1	A

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

Specification Features:

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

DEVICE MARKING CODE:

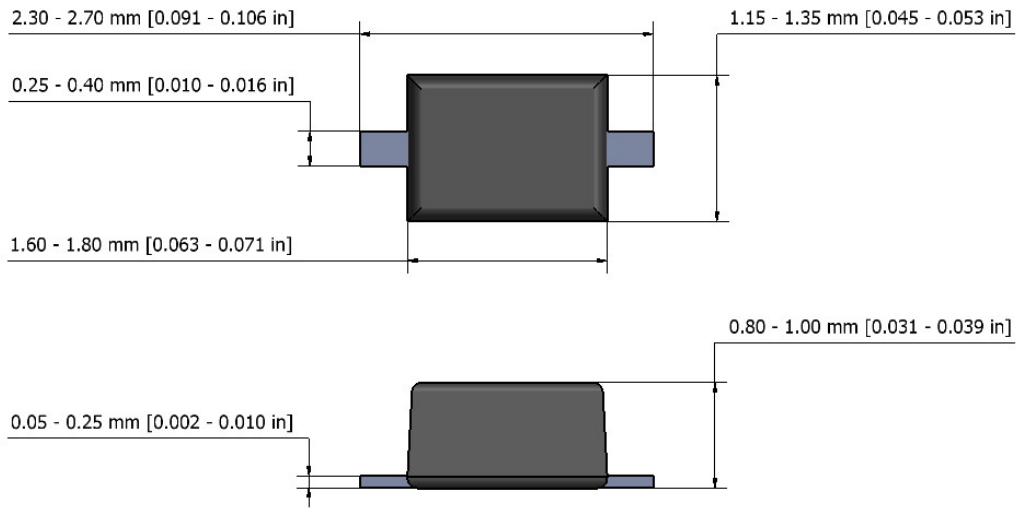
Device Type	Device Marking
RB501V-40	B4

Electrical Characteristics

T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	I_R=500µA	42		Volts
I_R	Reverse Leakage Current	V_R=40V		100	µA
V_F	Forward Voltage	I_F=10mA I_F=100mA		0.340 0.550	Volts

SOD-323 Package Outline



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