

RB501V-40

SILICON EXPITAXIAL SCHOTTKY BARRIER DIODES

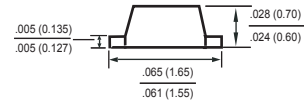
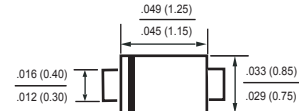
FEATURES

- * Low Forward Voltage Drop
- * Flat Lead SOD-523 Small Outline Plastic Package
- * Surface Device Type Mounting
- * Moisture Sensitivity Level 1
- * Clip Bonding Construction, Good Thermal Capability
- * Pb Free Version and ROHS Compliant
- * Matte Tin(Sn) Lead Finish with Nicke(Ni) Underplate
- * Band Indicates Cathode
- * Ultra Small Mold Type, Low Forward Voltage, High Reliability

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
resistive or inductive load.

SOD-323



Dimensions in inches and (millimeters)

Absolute Maximum Ratings (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	RB521S-40	UNITS
Repetitive Peak Reverse Voltage	V_{RRM}	45	Volts
Continuous Reverse Voltage	V_R	40	Volts
Mean Rectifying Current	I_O	200	mAmps
Peak Forward Surge Current(60 Hz or Cyc.)	I_{FSM}	1	Amps
Junction Temperature	T_J	150	°C
Operating and Storage Junction Temperature	T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN	TYP	MAX	UNITS
Forward Voltage	@If=10mA	0.16	-	0.30	Volts
	@If=100mA	0.31	-	0.45	
	@If=200mA	0.41	-	0.54	
Reverse Voltage Leakage Current	@VR=10V	-	-	20	uAmps
	@VR=40V	-	-	90	

Note: "Fully ROHS Compliant", "100% Sn Plating (Pb-free)".

VD 2010-01
REV:O

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