



SURFACE MOUNT SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE – 40 Volts FORWARD CURRENT – 0.1 Ampere

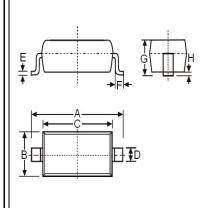
SOD-323

FEATURES

- Extremely low VF drop
- Very Small Conduction Losses

MECHANICAL DATA

- Case: SOD-323 Plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)
- Moisture Sensitivity: Level 1 per J-STD-020D
- Lead Free in RoHS 2002/95/EC Compliant



SOD-323			
Dim.	Min.	Max.	
Α	2.50	2.70	
В	1.20	1.40	
С	1.60	1.80	
D	0.25	0.35	
E	0.08	0.15	
F	0.25	0.40	
G		1.0	
Н	0.00	0.10	
Dimensions in millimeter			

Maximum Ratings & Thermal Characteristics @ T_A = 25°C unless otherwise specified

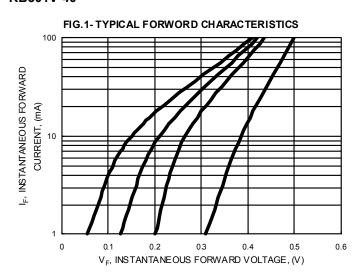
Characteristic	Symbol	RB501V-40	Units
Peak Reverse Voltage	V_{RM}	45	V
DC reverse voltage	V _R	40	
Average Rectified Forward Current	Io	100	mA
Peak Forward Surge Current @ tp=8.3ms	I _{FSM}	1	A
Power Dissipation	P _D	250	mW
Operating Temperature Range	TJ	125	$^{\circ}$ C
Storage Temperature Range	T _{STG}	-55~+125	$^{\circ}\mathbb{C}$

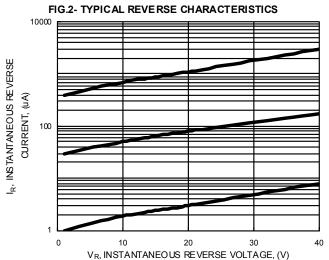
Electrical Characteristics @ T_A = 25°C unless otherwise specified

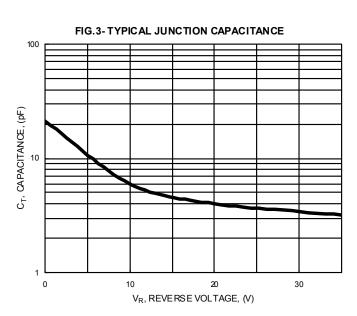
Characteristic	Test Condition	Symbol	RB501V-40	Unit
Reverse Breakdown Voltage	I _R = 100uA	V_{BR}	40	V
Maximum Forward Voltage	I _F = 10mA I _F = 100mA	V _F	340 550	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 10V	I _R	30	uA
Typical Diode Capacitance	V _R =10V,f=1MHz	C _D	6	pF
	•		REV. 1, Oct-2010, P	SHR40

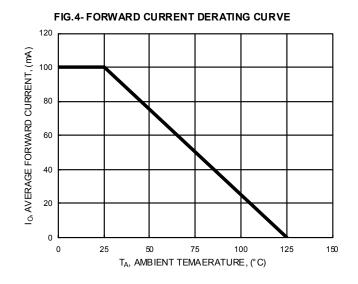
RATING AND CHARACTERISTIC CURVES RB501V-40











Device Marking:

Device P/N	Marking	Equivalent Circuit Diagram
RB501V-40	4	1 0



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.