LITE-ON SEMICONDUCTORS

RB751G-40

SURFACE MOUNT
SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.03 Ampere

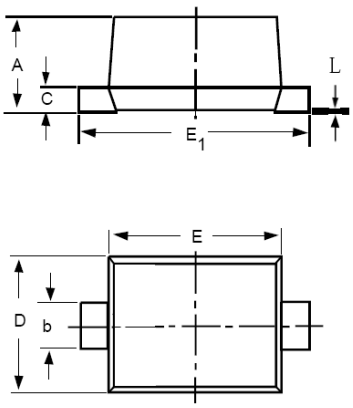
FEATURES

- Extremely low VF drop
- Low inductance

MECHANICAL DATA

- Case: SOD-723 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-723



SOD-723		
Dim.	Min.	Max.
A	0.525	0.65
b	0.25	0.35
C	0.08	0.15
D	0.55	0.65
E	0.90	1.10
E1	1.30	1.50
L	0.01	0.07
Dimensions in millimeter		

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

Characteristic	Symbol	RB751G-40	Units
Peak Reverse Voltage	V_{RM}	40	V
DC reverse voltage	V_R	30	
Average Rectified Forward Current	I_O	30	mA
Peak Forward Surge Current @ tp=8.3ms	I_{FSM}	0.2	A
Operating Temperature Range	T_J	125	℃
Storage Temperature Range	T_{STG}	-40~+125	℃

Electrical Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Test Condition	Symbol	RB751G-40	Unit
Reverse Breakdown Voltage	I_R = 100uA	V_{BR}	30	V
Maximum Forward Voltage	I_F = 1mA	V_F	370	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V_R = 30V	I_R	0.5	uA
Typical Diode Capacitance	V_R =1.0V,f=1MHz	C_D	2	pF

REV. 1, Oct-2010, KSHR50

RATING AND CHARACTERISTIC CURVES
RB751G-40

FIG.1- TYPICAL FORWORD CHARACTERISTICS

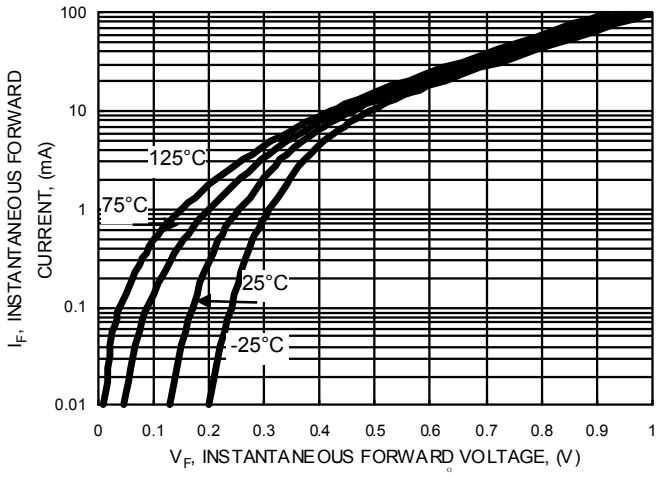


FIG.2- TYPICAL REVERSE CHARACTERISTICS

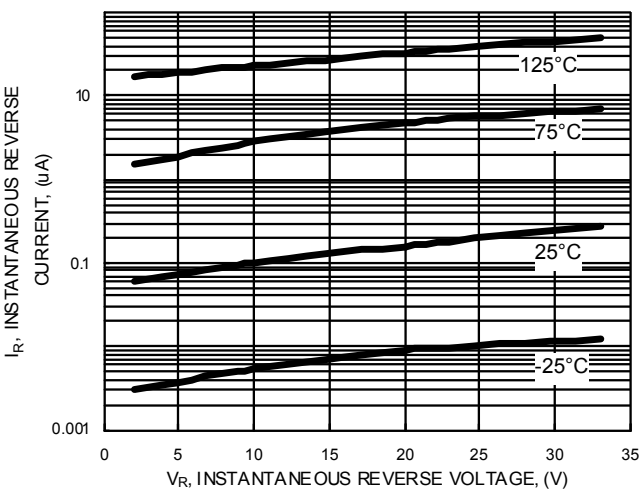
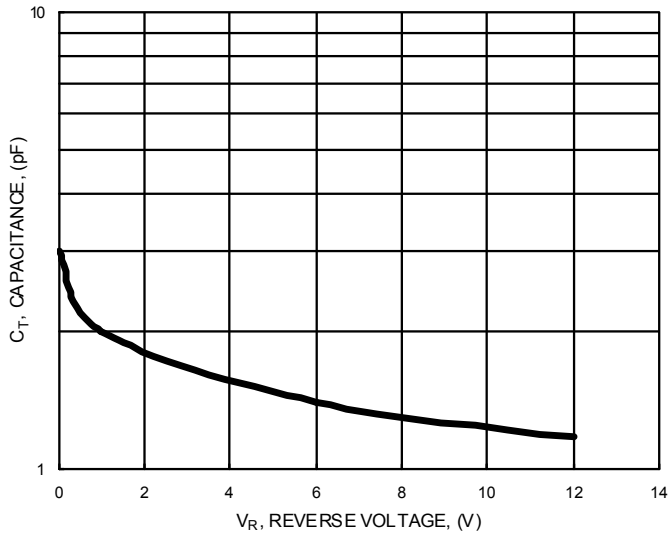


FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB751G-40	5	1 ○—▶|— ○ 2

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.