

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

**REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.03 Ampere**

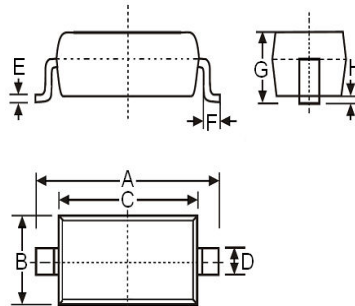
FEATURES

- Extremely low VF drop
- Low inductance

MECHANICAL DATA

- Case: SOD-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



SOD-323		
Dim.	Min.	Max.
A	2.50	2.70
B	1.20	1.40
C	1.60	1.80
D	0.25	0.35
E	0.08	0.15
F	0.25	0.40
G	---	1.0
H	0.00	0.10
Dimensions in millimeter		

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

Characteristic	Symbol	RB751V-40	Units
Peak Reverse Voltage	V _{RM}	40	V
DC reverse voltage	V _R	30	V
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	°C
Storage Temperature Range	T _{STG}	-40~+125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Test Condition	Symbol	RB751V-40	Unit
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, KSHR52

RATING AND CHARACTERISTIC CURVES
RB751V-40



FIG.1- TYPICAL FORWARD CHARACTERISTICS

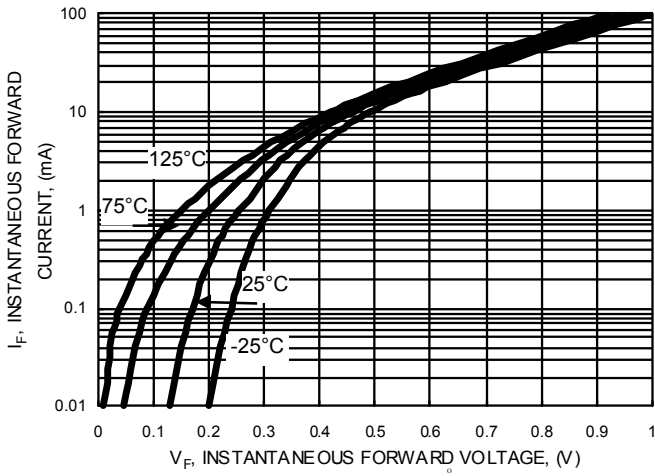


FIG.2- TYPICAL REVERSE CHARACTERISTICS

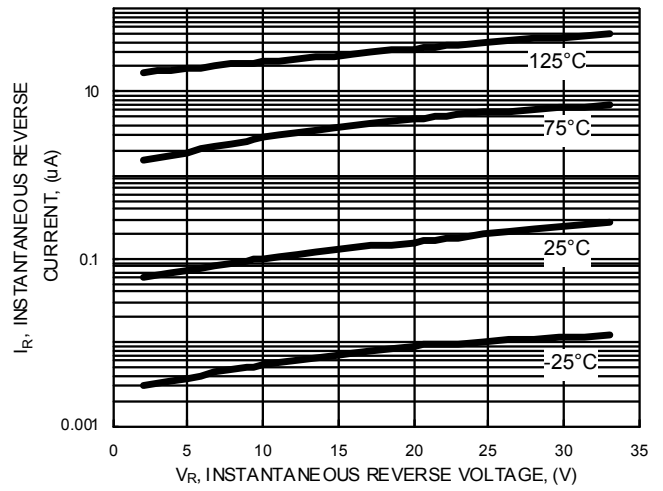
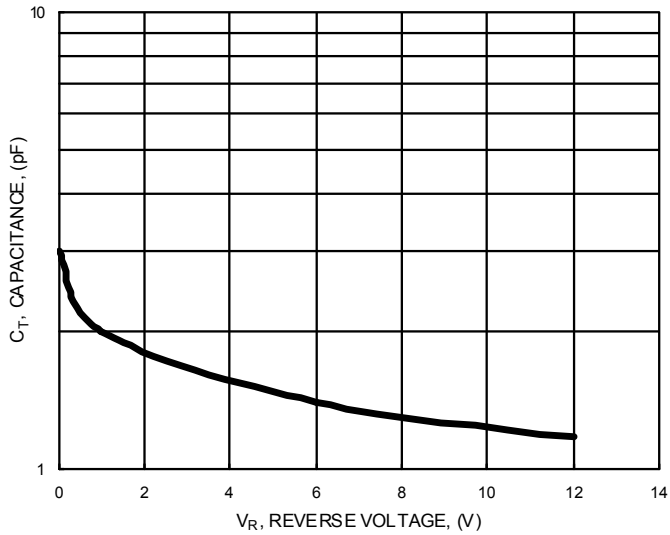


FIG.3- TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB751V-40	5	1 ○ ——— <————○ 2

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