

**SURFACE MOUNT  
SCHOTTKY BARRIER DIODE**

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

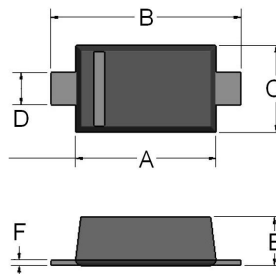
**FEATURES**

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

**MECHANICAL DATA**

- Case: SOD-323F Plastic

**SOD-323F**



SOD-323F		
DIM.	MIN.	MAX.
A	1.60	1.80
B	2.30	2.70
C	1.15	1.35
D	0.25	0.40
E	0.80	1.00
F	0.05	0.25
All Dimensions in millimeter		

**Maximum Ratings & Thermal Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified**

Characteristic	Symbol	RB751V-40F	Units
Power Dissipation	P <sub>D</sub>	200	mW
Repetitive Peak Reverse Voltage	V <sub>RM</sub>	40	V
Non-Repetitive Peak Forward Current	I <sub>FSM</sub>	500	mA
Maximum DC Blocking Voltage	V <sub>R</sub>	30	V
Forward Current	I <sub>F</sub>	30	mA
Operating Temperature Range	T <sub>J</sub>	+125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~+125	°C

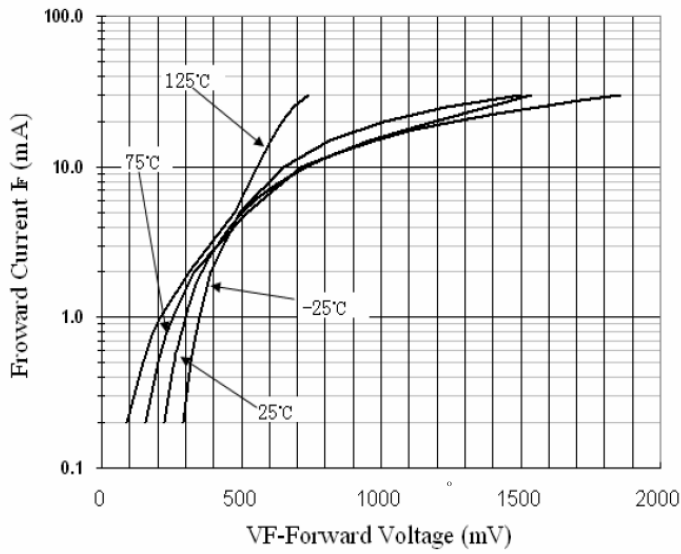
**Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified**

Characteristic	Test Condition	Symbol	RB751V-40F	Unit
Breakdown Voltage	I <sub>R</sub> =10μA	BV	30	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V <sub>R</sub> =30V	I <sub>R</sub>	0.5	uA
Maximum DC Forward Voltage	I <sub>F</sub> =1mA	V <sub>F</sub>	0.370	V

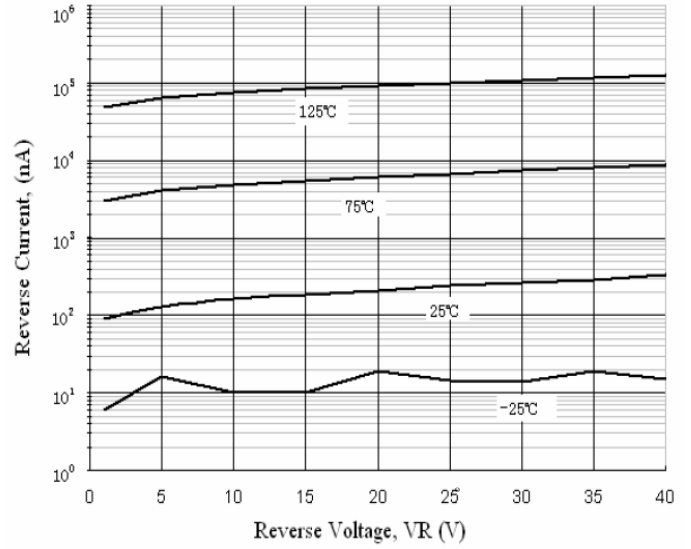
These ratings are limiting values above which the serviceability of the diode may be impaired.

**REV. 0, Aug-2011, KSHR66**

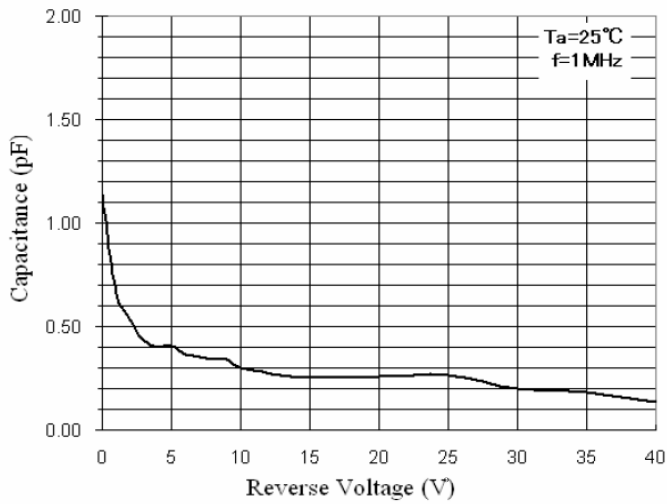
**FIG.1-TYPICAL FORWARD CHARACTERISTICS**



**FIG.2-TYPICAL REVERSE CHARACTERISTICS**



**FIG.3-TYPICAL JUNCTION CAPACITANCE**



**Device Marking :**

Device P/N	Marking	Equivalent Circuit Diagram
RB751V-40F	B5	

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