

**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**

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

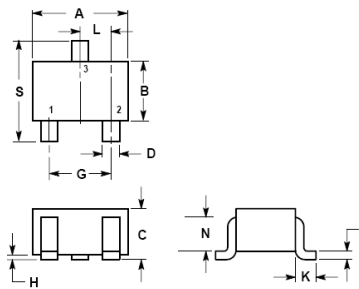
FEATURES

- Extremely Fast Switching Speed
- Low Forward Voltage
- Very Small Conduction Losses

MECHANICAL DATA

- Case: SOT-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

SOT-323



SOT-323		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	0.80	1.00
D	0.30	0.40
G	1.20	1.40
H	0.00	0.10
J	0.10	0.25
K	0.425 Ref.	
L	0.650 Bsc	
N	0.700 Ref.	
S	2.00	2.40
Dimensions in millimeter		

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

Characteristic	Symbol	RB715F	Units
Non-Repetitive Peak Reverse Voltage	V _{RM}	40	V
DC Blocking Voltage	V _R	40	V
Average Rectifier Forward Current	I _{F(AV)}	30	mA
Peak Forward Surge Current@t=8.3ms	I _{FSM}	200	mA
Power Dissipation	P _D	200	mW
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	RB715F	Unit
Reverse Breakdown Voltage	I _R = 10uA	V _{BR}	40	V
Maximum Forward Voltage	I _F = 1mA	V _F	370	mV
Maximum DC Reverse Current at Rated DC Blocking Voltage	V _R = 10V	I _R	1	uA
Typical Diode Capacitance	V _R = 1.0V, f=1MHz	C _D	2	pF

REV. 2, Jan-2013, KSHR47

RATING AND CHARACTERISTIC CURVES RB715F



FIG.1- TYPICAL FORWARD CHARACTERISTICS

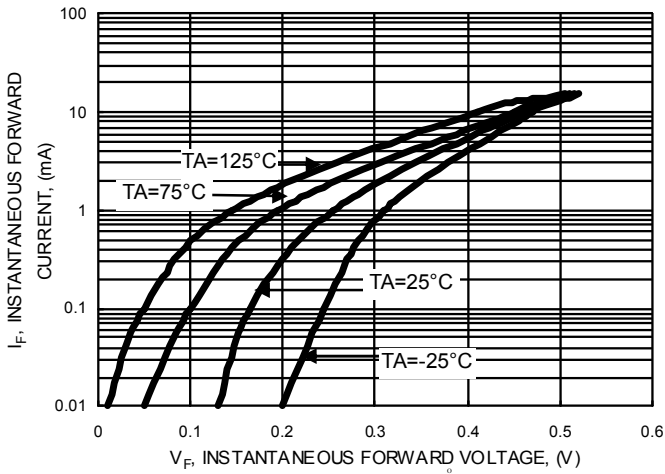


FIG.2- TYPICAL REVERSE CHARACTERISTICS

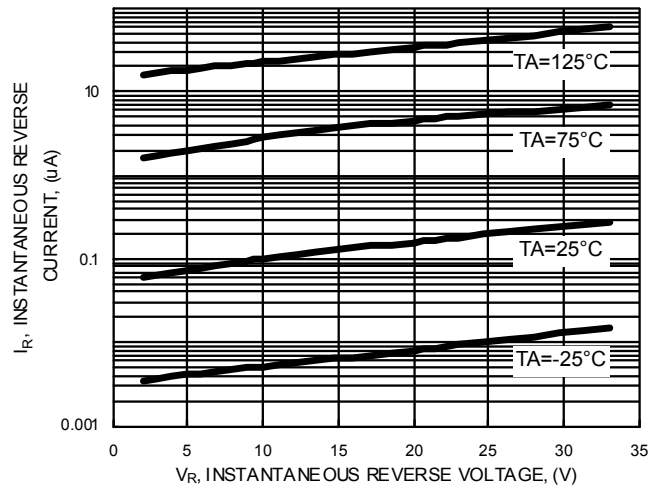


FIG.3- TYPICAL JUNCTION CAPACITANCE

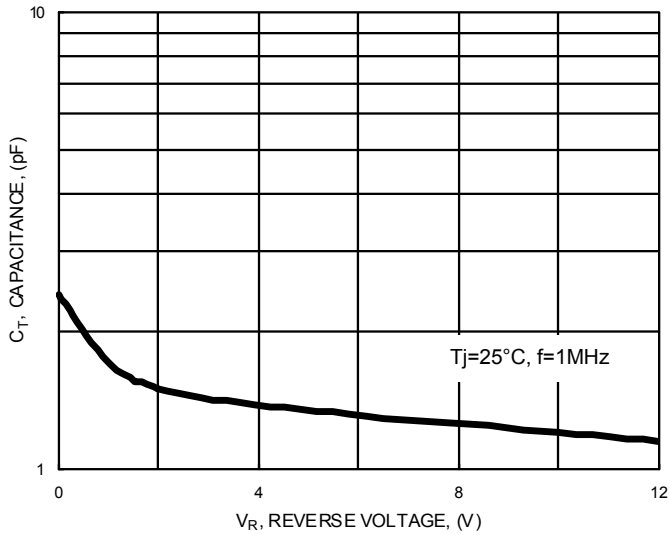
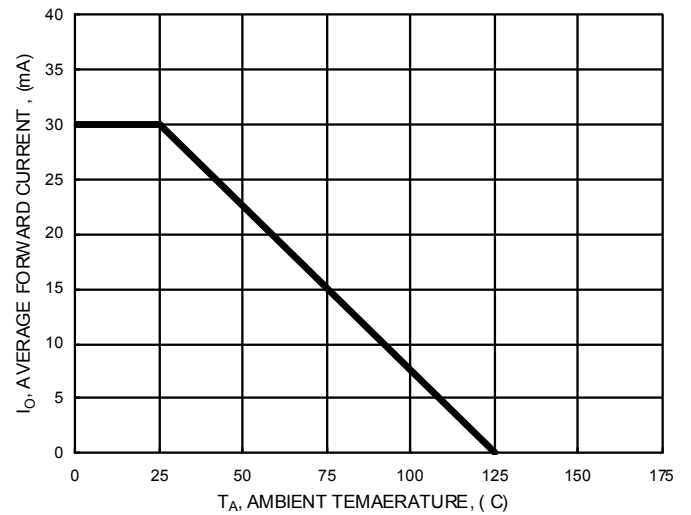


FIG.4- FORWARD CURRENT DERATING CURVE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB715F	3D	<p>The diagram shows a diode symbol with three terminals. Terminal 1 is the anode, terminal 2 is the cathode, and terminal 3 is the common terminal. The diode symbol is oriented with the arrow pointing from terminal 1 towards terminal 2.</p>

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New Marking Rule Notification

Range: In order to have well management in process control, the new marking rule is applied to small signal device including Switching Diode, Transistor and Schottky Diode.

Package: SOT-23 / SOT-323 / SOT-523

