LITE-ON SEMICONDUCTORS

RB520S- 30F

SURFACE MOUNT
SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE – 30 Volts
FORWARD CURRENT – 0.2 Ampere

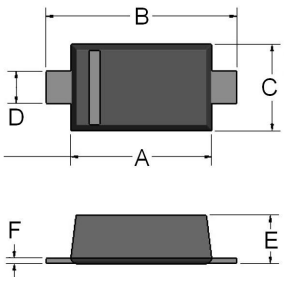
FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523F Small Outline Plastic Package
- Extremely Small SOD-523F Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

MECHANICAL DATA

- Case: SOD-523F Plastic

SOD-523F



SOD-523F		
DIM.	MIN.	MAX.
A	1.10	1.30
B	1.50	1.70
C	0.7	0.9
D	0.25	0.35
E	0.50	0.70
F	0.05	0.20
All Dimensions in millimeter		

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

Characteristic	Symbol	RB520S-30F	Units
Power Dissipation	P_D	200	mW
Peak Forward Surge Current (At 8.3ms single half sine-wave)	I_{FSM}	1	A
Reverse Voltage	V_R	30	V
Average Forward Current	$I_{F(AV)}$	200	mA
Operating Temperature Range	T_J	+125	℃
Storage Temperature Range	T_{STG}	-55~+125	℃

Electrical Characteristics @ T_A = 25℃ unless otherwise specified

Characteristic	Test Condition	Symbol	RB520S-30F	Unit
Breakdown Voltage	I_R=500μA	B_V	30	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	V_R = 10V	I_R	1	uA
Maximum DC Forward Voltage	I_F=200mA	V_F	0.6	V

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

REV. 0, Aug-2011, KSHR61

RATING AND CHARACTERISTIC CURVES
RB520S-30F

FIG.1-TYPICAL FORWORD CHARACTERISTICS

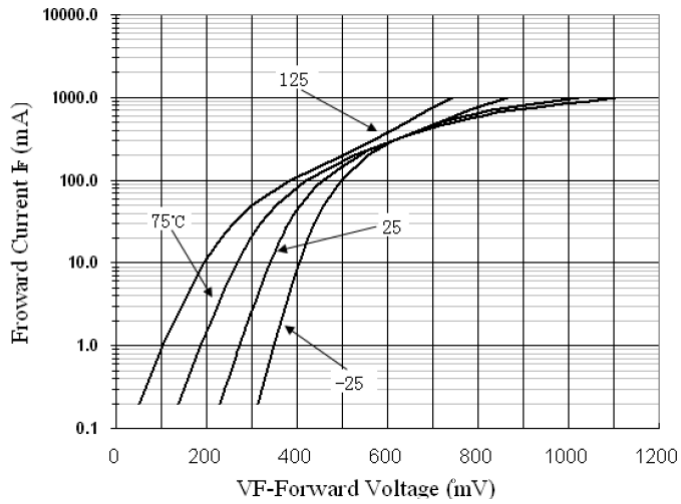


FIG.2-TYPICAL REVERSE CHARACTERISTICS

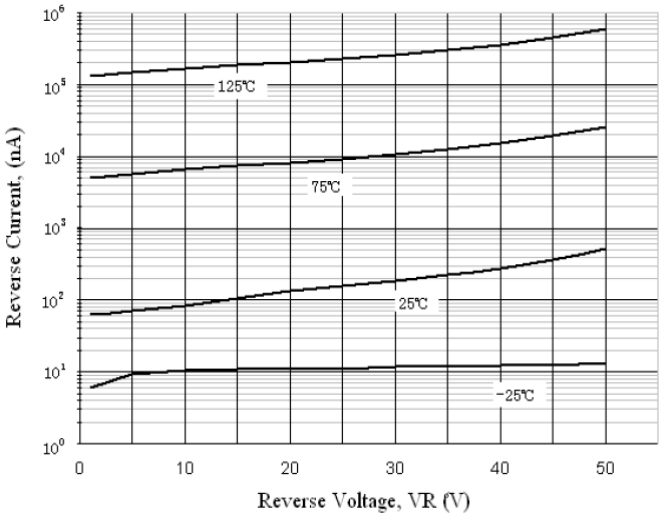
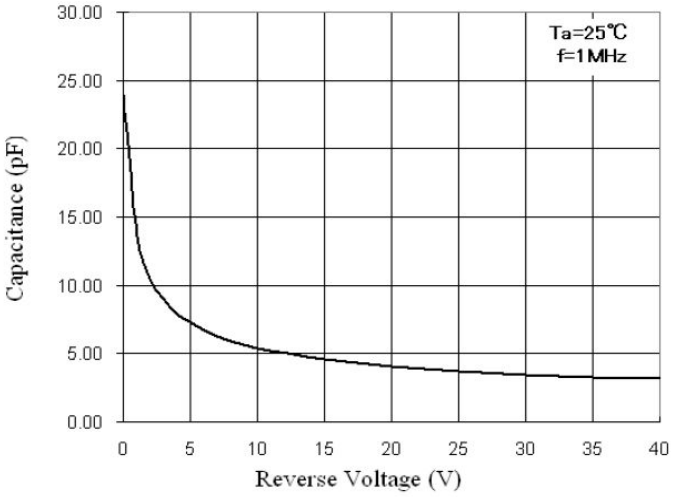


FIG.3-TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB520S-30F	B	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.