LITE-ON SEMICONDUCTORS

RB520S- 40F

SURFACE MOUNT
SCHOTTKY BARRIER DIODE

REVERSE VOLTAGE – 40 Volts
FORWARD CURRENT – 0.2 Ampere

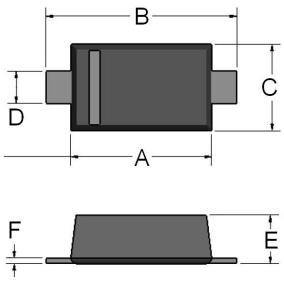
FEATURES

- 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-40F	Units
Power Dissipation	P_D	200	mW
Reverse Voltage	V_R	40	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-40F	Unit
Breakdown Voltage	I_R=10μA	B_V	40	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.

RATING AND CHARACTERISTIC CURVES
RB520S-40F

FIG.1-TYPICAL FORWORD CHARACTERISTICS

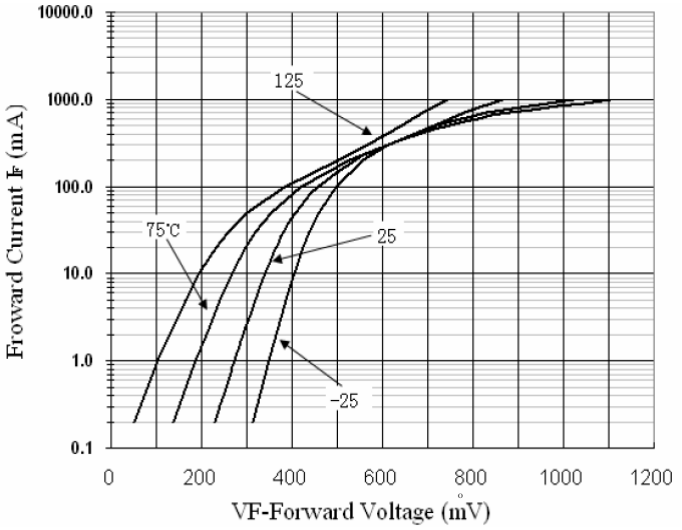


FIG.2-TYPICAL REVERSE CHARACTERISTICS

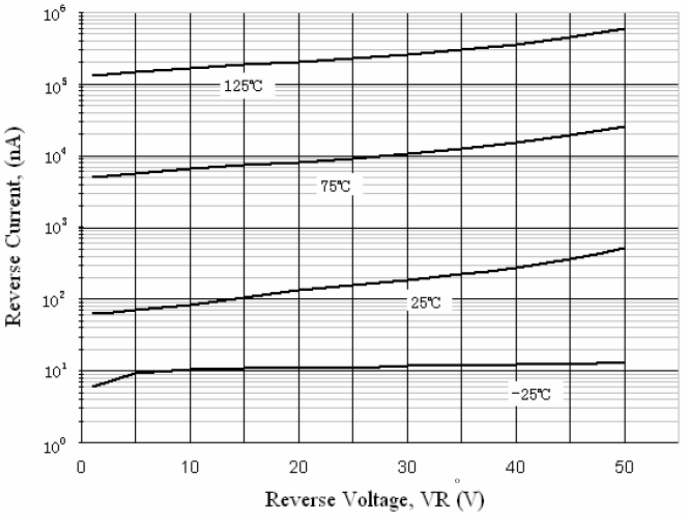
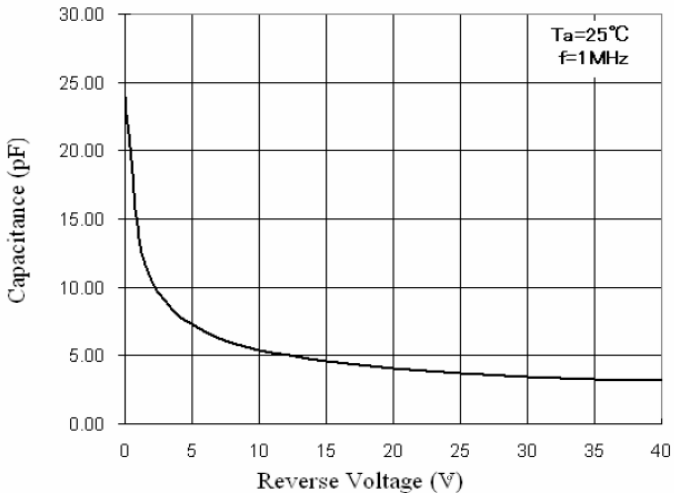


FIG.3-TYPICAL JUNCTION CAPACITANCE



Device Marking :

Device P/N	Marking	Equivalent Circuit Diagram
RB520S-40F	3B	1 2

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