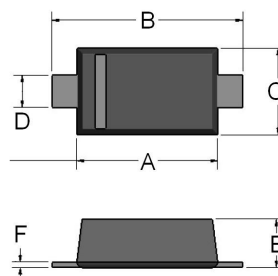


**SURFACE MOUNT
SCHOTTKY BARRIER DIODE**
**REVERSE VOLTAGE – 30 Volts
FORWARD CURRENT – 0.2 Ampere**
FEATURES

- 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 @ $T_A = 25^\circ\text{C}$ 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	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55~+125	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Test Condition	Symbol	RB520S-30F	Unit
Breakdown Voltage	$I_R = 500\mu\text{A}$	BV	30	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$V_R = 10\text{V}$	I_R	1	μA
Maximum DC Forward Voltage	$I_F = 200\text{mA}$	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

FIG.1-TYPICAL FORWOD CHARACTERISTICS

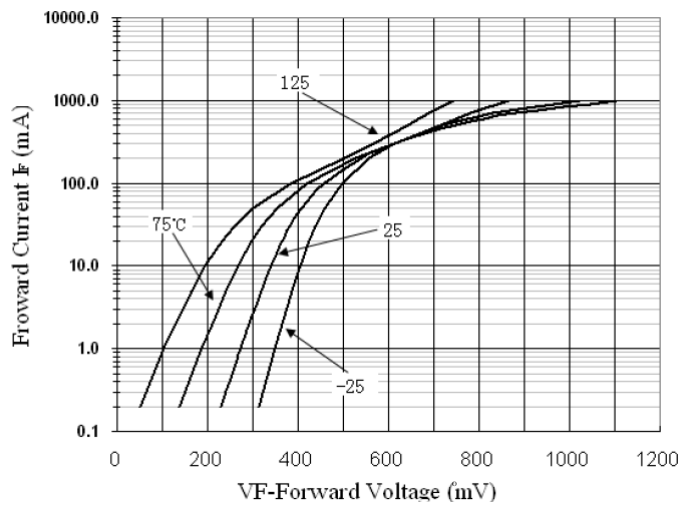


FIG.2-TYPICAL REVERSE CHARACTERISTICS

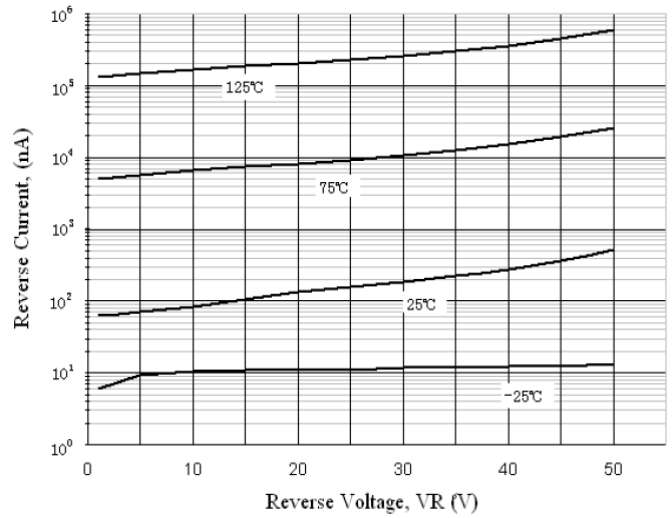
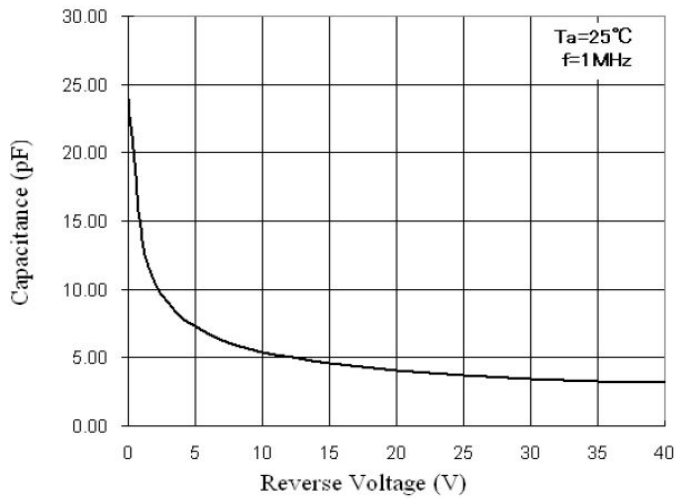


FIG.3-TYPICAL JUNCTION CAPACITANCE



Device Marking :

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

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