

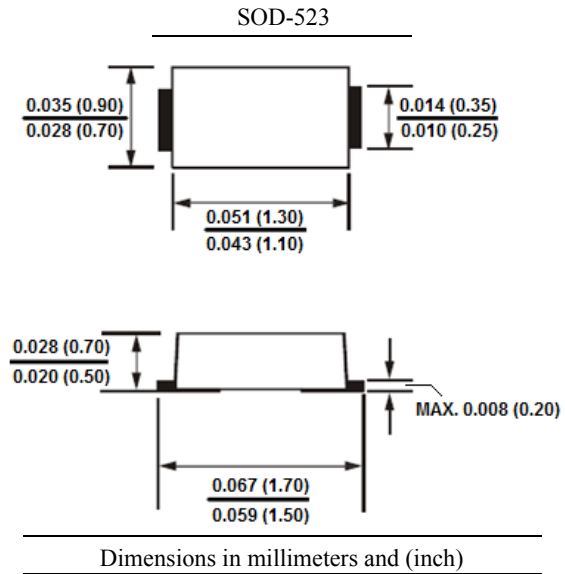


# RB520S-30

## SCHOTTKY DIODES

### FEATURES

- Low Forward Voltage Drop
- Flat Lead SOD-523 Small Outline Plastic Package
- Extremely Small SOD-523 Package
- Surface Device Type Mounting
- Suffix "H" indicates Halogen-free parts, ex. RB520S-30H



### Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Power Dissipation	$P_D$	200	mW
Reverse Voltage	$V_R$	30	V
Average Forward Current	$I_{F(AV)}$	200	mA
Peak Forward Surge Current (At 8.3ms single half sine-wave)	$I_{FSM}$	1.0	A
Operating Junction Temperature	$T_J$	+125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +125	$^\circ\text{C}$

### Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit	Conditions
Breakdown Voltage	$B_V$	30	--	V	$I_R = 500\mu\text{A}$
Reverse Current	$I_R$	--	1	$\mu\text{A}$	$V_R = 10\text{V}$
Forward Voltage	$V_F$	--	0.6	V	$I_F = 200\text{mA}$

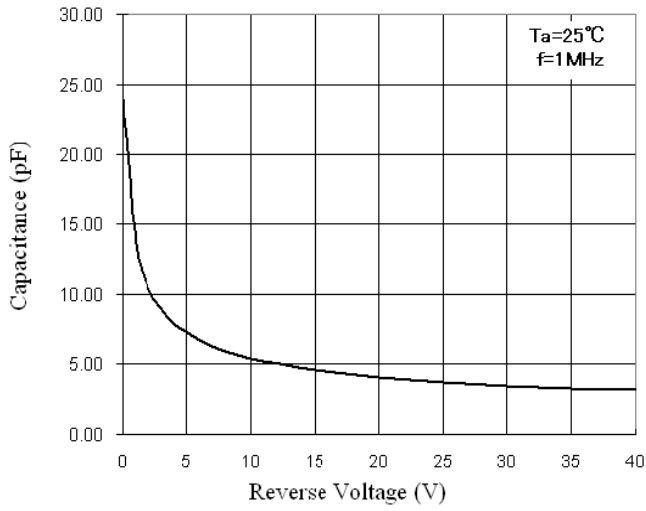


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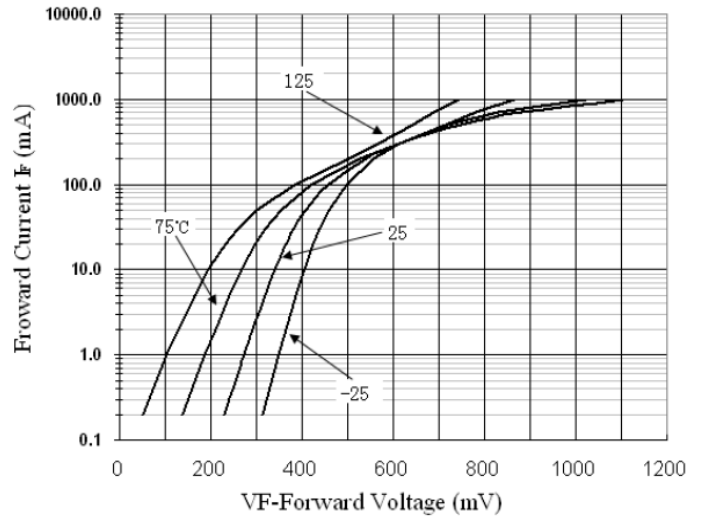
## SCHOTTKY DIODES

### Typical Characteristics

Total Capacitance



Forward Voltage vs Ambient Temperature



Reverse Current vs Reverse Voltage

