

# RB520S30

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 30 Volt **CURRENT** 200 mA

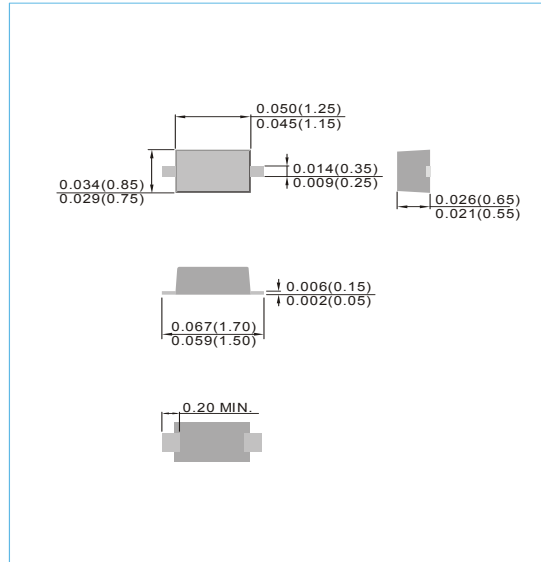
**SOD-523** Unit : inch(mm)

### FEATURES

- Extremely High Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.0001 ounces,0.0014 grams
- Marking : 20



### ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Peak Reverse Voltage	$V_R$	30	V
Maximum Forward Current	$I_O$	0.2	A
Peak Forward Surge Current 1000ms Single half sine-wave superimposed on rate load	$I_{FSM}$	1	A
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125	°C

### ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted )

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Leakage Current	$I_R$	$V_R=10\text{V}$	-	-	1.0	$\mu\text{A}$
Forward Voltage	$V_{F1}$	$I_F=20\text{mA}$	-	-	0.40	V
Forward Voltage	$V_{F2}$	$I_F=200\text{mA}$	-	-	0.60	V
Total Capacitance	$C_J$	$V_R=0\text{V}, F=1\text{MHz}$	-	30	-	pF

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## RATING AND CHARACTERISTIC CURVES

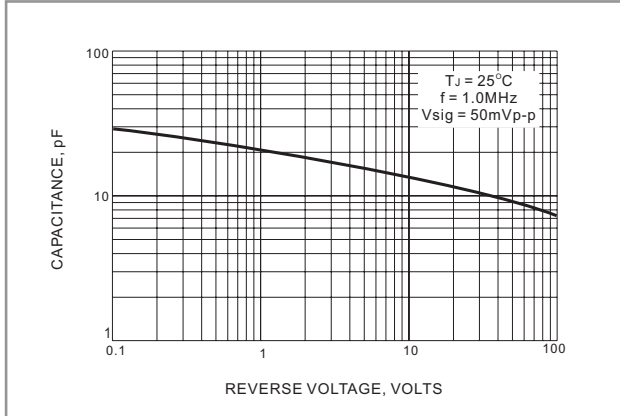


FIG.1 TYPICAL JUNCTION CAPACITANCE

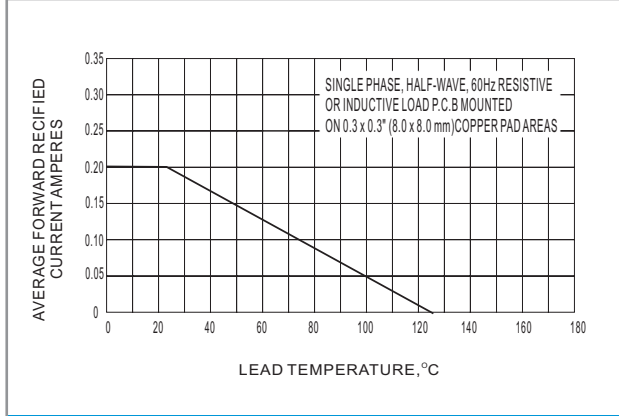


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

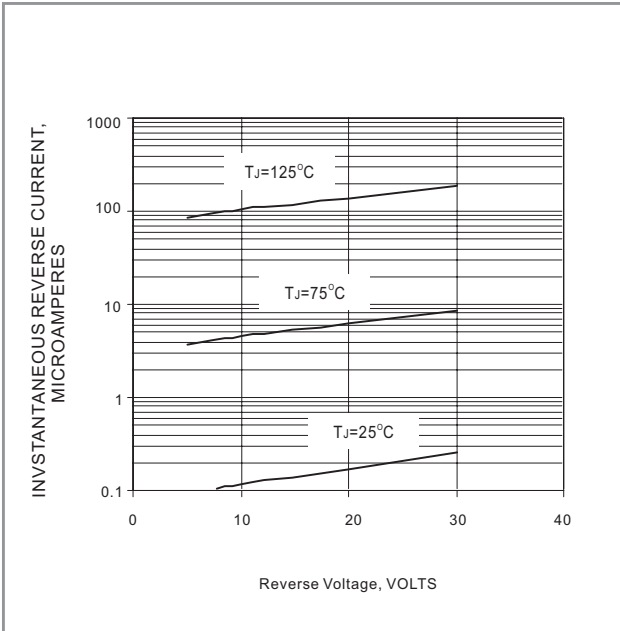


Fig.3 Typical Reverse Characteristics

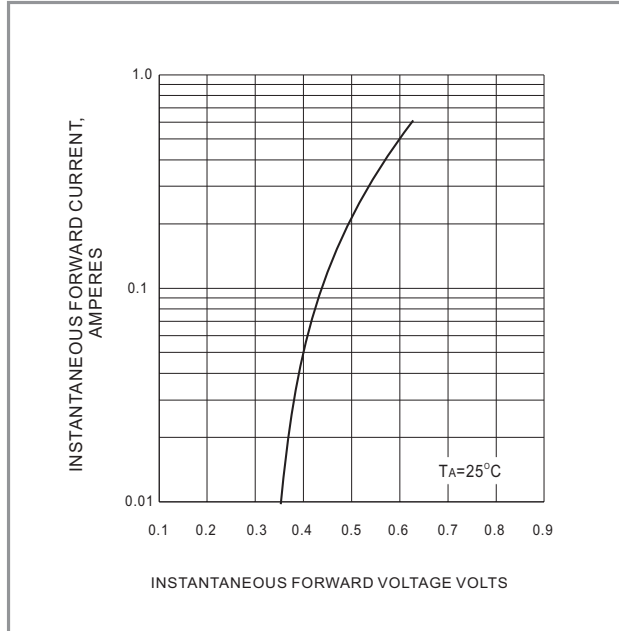


FIG.4 TYPICAL FORWARD CHARACTERISTICS

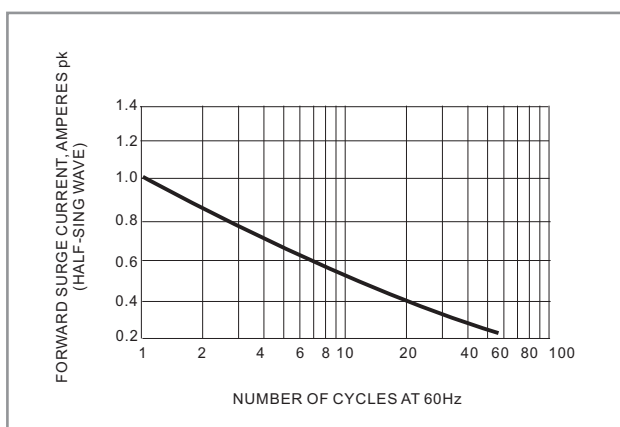


FIG.5 MAXIMUM NON-REPETITIVE SURGE CURRENT

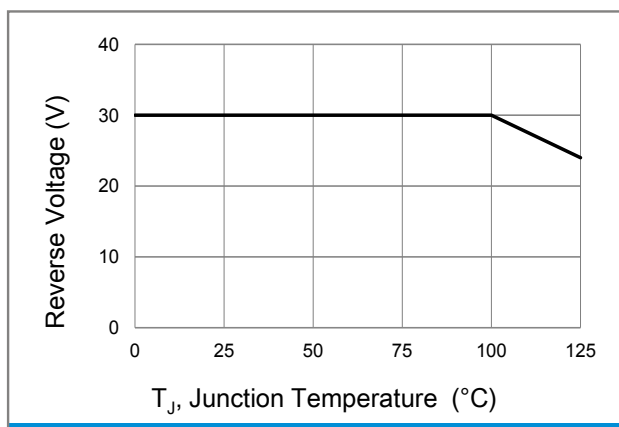
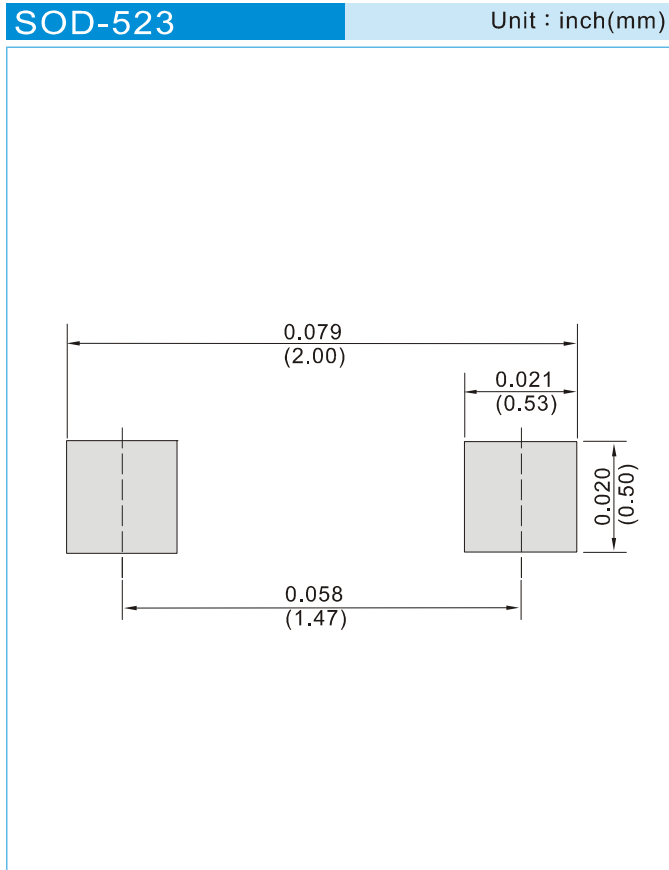


Fig.6 Operating Temperature Derating Curve

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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 5K per 7" plastic Reel

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