

RB520S30

SURFACE MOUNT SCHOTTKY DIODES

VOLTAGE 30 Volt **CURRENT** 200 mA

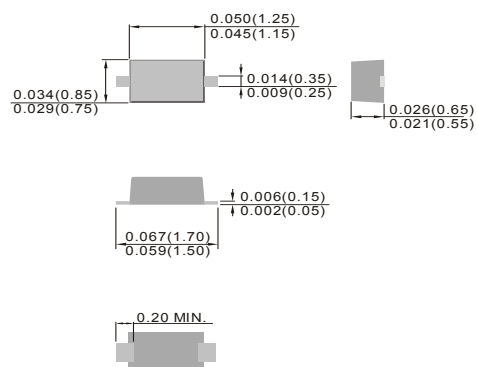
FEATURES

- 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

SOD-523 Unit : inch(mm)



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	μA
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

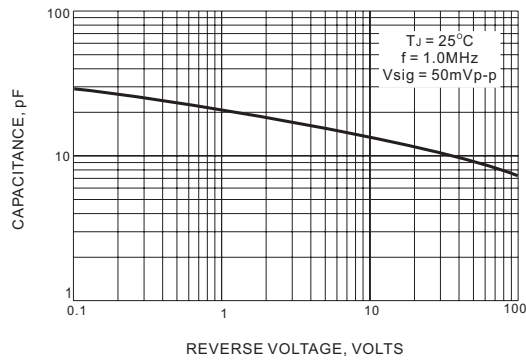


FIG.1 TYPICAL JUNCTION CAPACITANCE

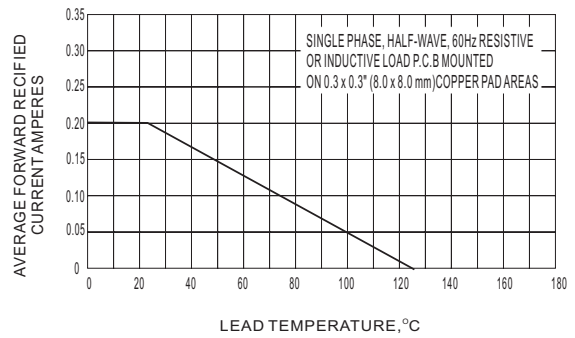


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

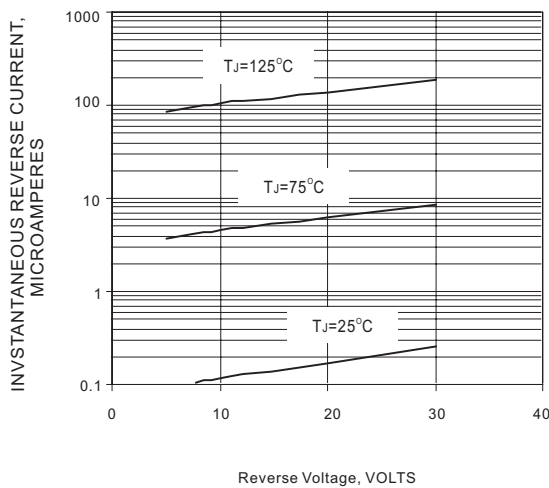


Fig.3 Typical Reverse Characteristics

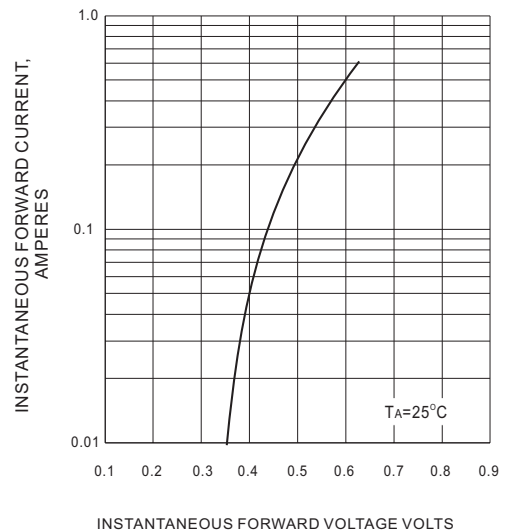


FIG.4 TYPICAL FORWARD CHARACTERISTICS

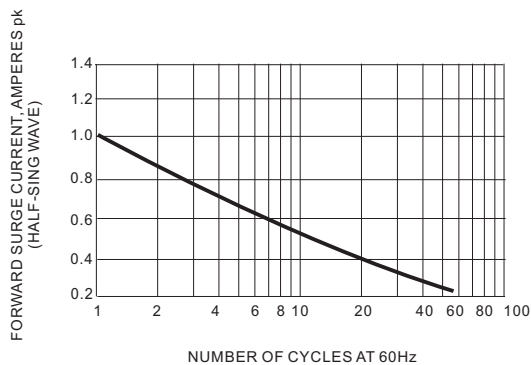


FIG.5 MAXIMUM NON-REPETITIVE SURGE CURRENT

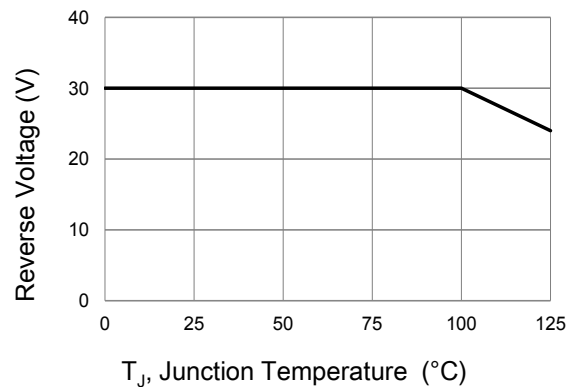
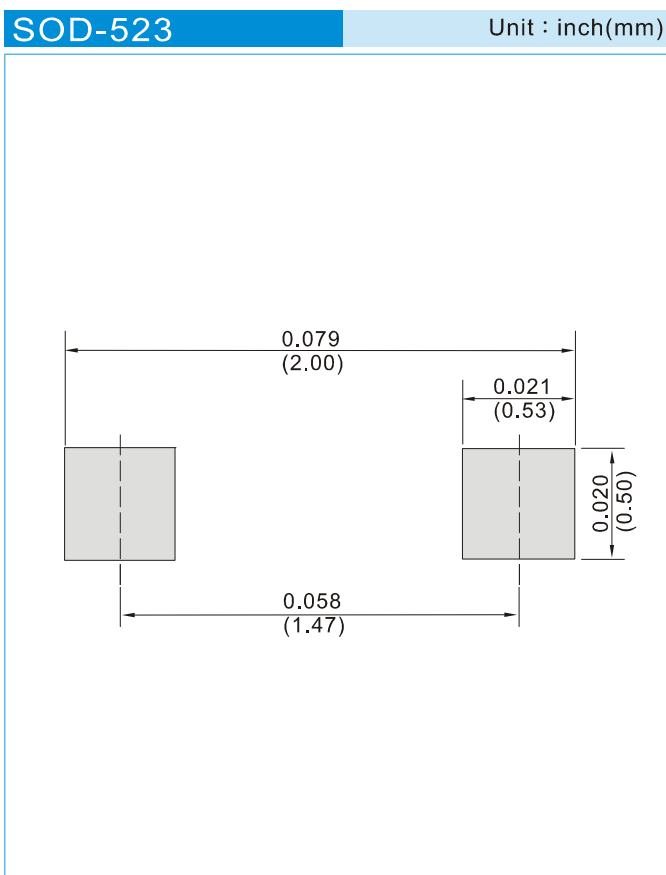


Fig.6 Operating Temperature Derating Curve

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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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