



# RB520S30

## SURFACE MOUNT SCHOTTKY DIODES

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

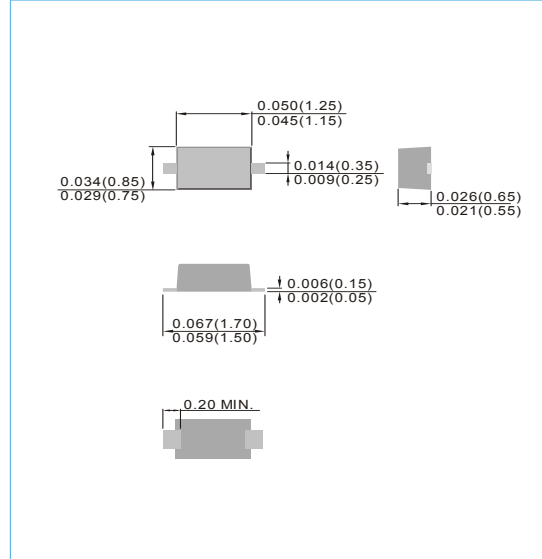
**SOD-523** Unit : inch(mm)

### 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

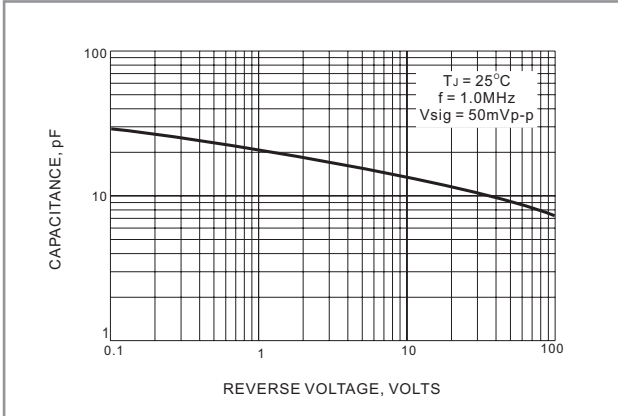
### ELECTRICAL CHARACTERISTICS ( $T_J = 25^\circ\text{C}$ unless otherwise noted )

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

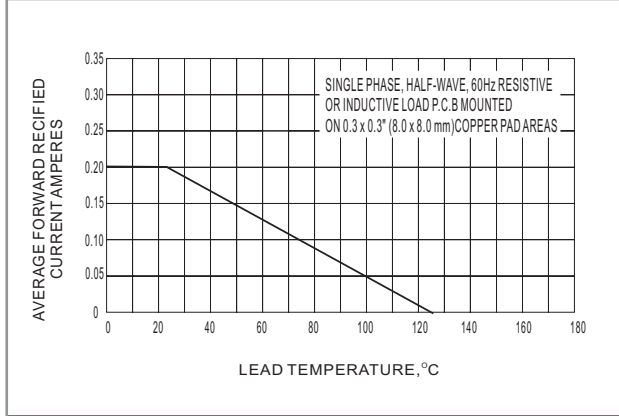


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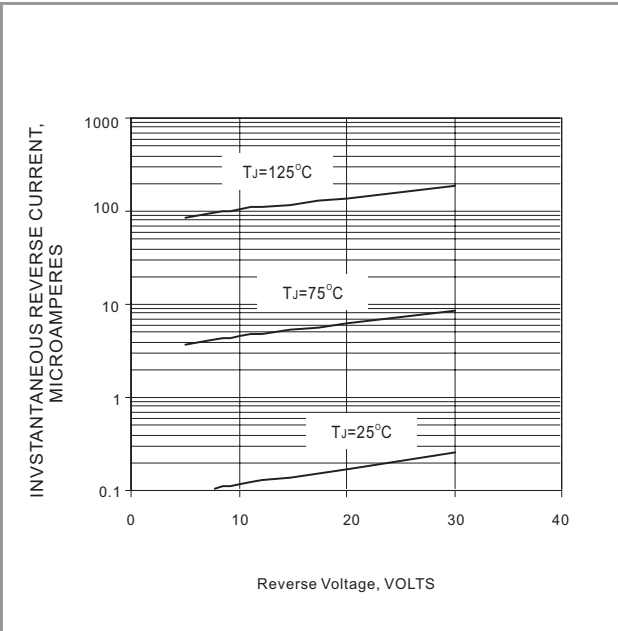
## RATING AND CHARACTERISTIC CURVES



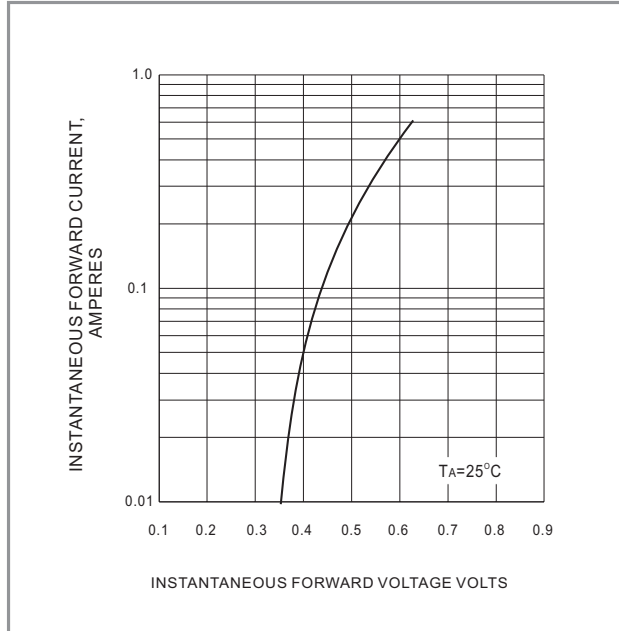
**FIG. 1 TYPICAL JUNCTION CAPACITANCE**



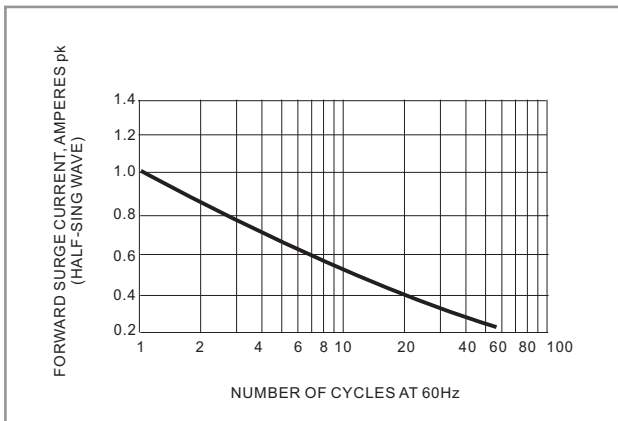
**FIG. 2 MAXIMUM AVERAGE FORWARD CURRENT DERATING**



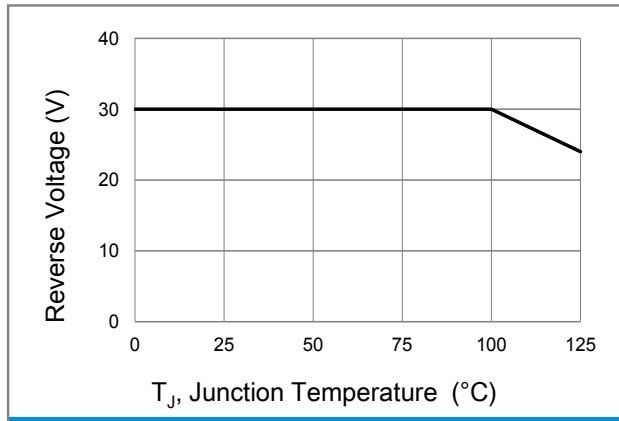
**Fig. 3 Typical Reverse Characteristics**



**FIG. 4 TYPICAL FORWARD CHARACTERISTICS**



**FIG. 5 MAXIMUM NON-REPEITIVE SURGE CURRENT**



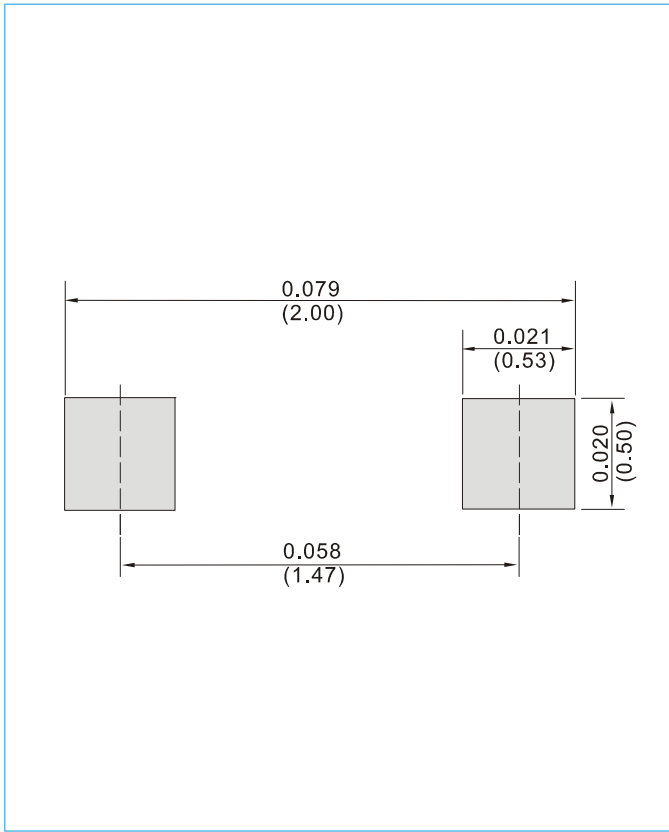
**Fig. \* Operating Temperature Derating Curve**



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## MOUNTING PAD LAYOUT

SOD-523 Unit : inch(mm)



## ORDER INFORMATION

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



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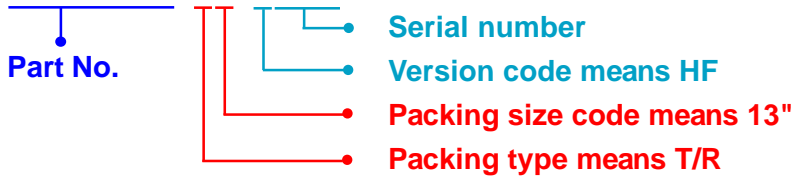
**Part No\_packing code\_Version**

RB520S30\_R1\_00001

RB520S30\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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