



# RB521S30-AU

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 30 Volts **CURRENT** 200 mA

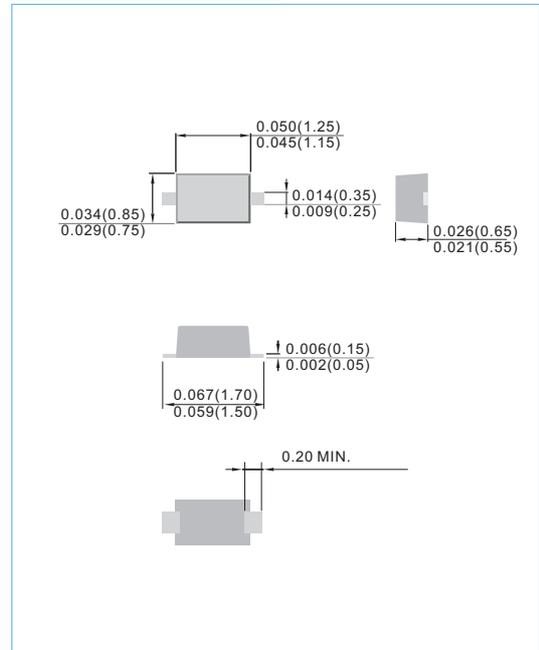
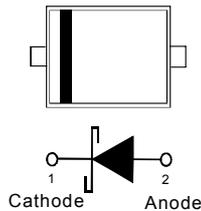
**SOD-523** Unit : inch(mm)

### FEATURES

- Extremely High Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified

### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight : 0.0014 grams
- Marking : 21



### ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units
Peak Reverse Voltage	$V_{RM}$	30	V
Mean Rectifying Current	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current@Tp=1s	$I_{FSM}$	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	MIN.	TYP.	MAX.	Units	Conditions
Forward Voltage	$V_{F1}$	-	-	0.50	V	$I_F = 200\text{mA}$
Forward Voltage	$V_{F2}$	-	-	0.35	V	$I_F = 10\text{mA}$
Reverse Current	$I_{R1}$	-	-	10	$\mu\text{A}$	$V_R = 10\text{V}$
Reverse Current	$I_{R2}$	-	-	100	$\mu\text{A}$	$V_R = 30\text{V}$



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## RATING AND CHARACTERISTIC CURVES

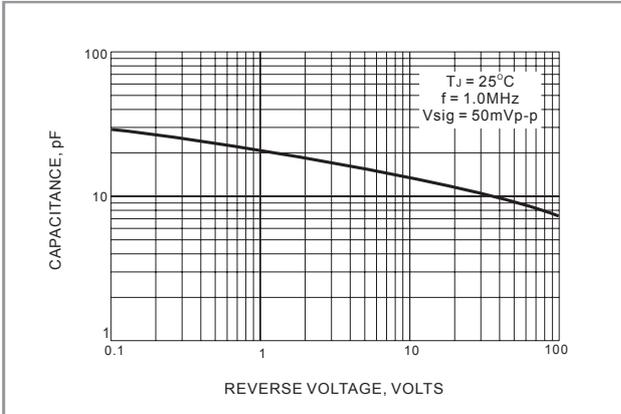


FIG.1 TYPICAL JUNCTION CAPACITANCE

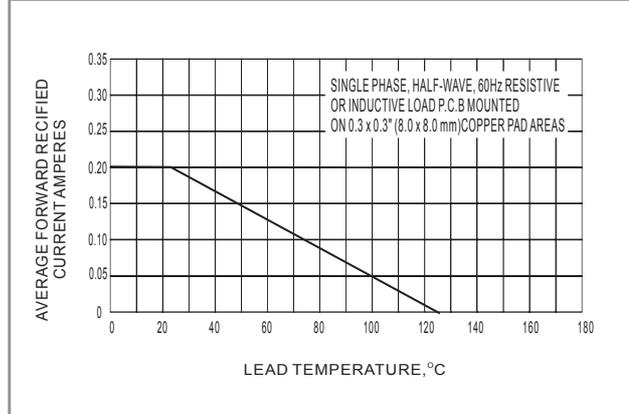


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

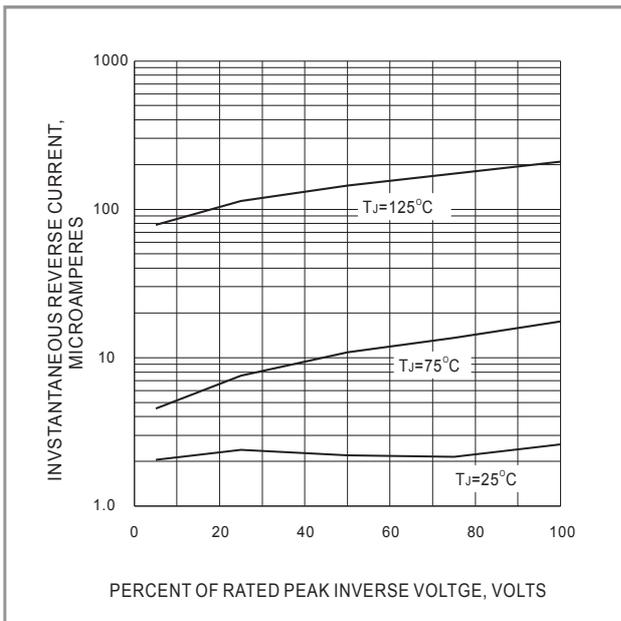


FIG.3 TYPICAL REVERSE CHARACTERISTICS

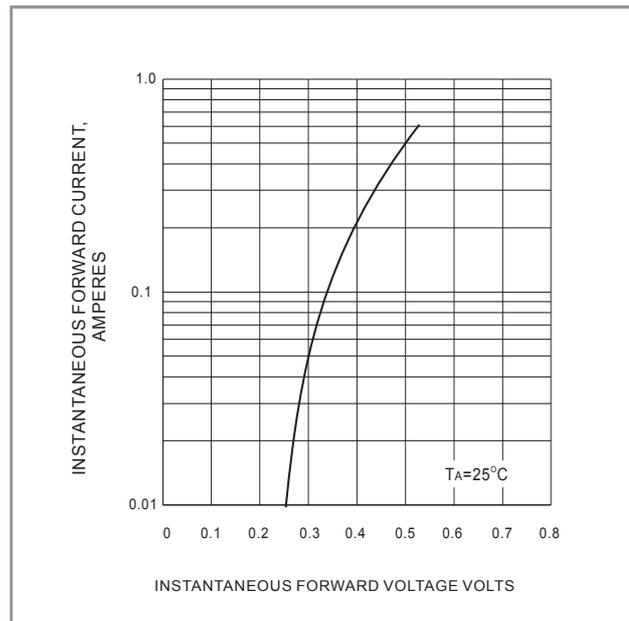


FIG.4 TYPICAL FORWARD CHARACTERISTICS

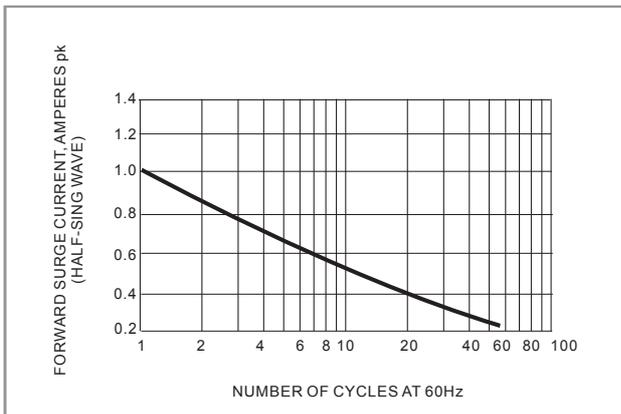
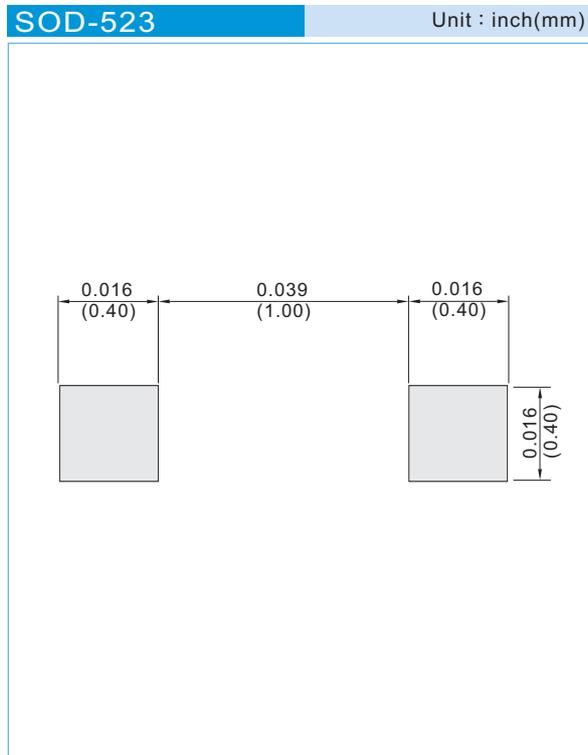


FIG.5 MAXIMUM NON-REPETITIVE SURGE CURRENT



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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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## Part No\_packing code\_Version

RB521S30-AU\_R1\_000A1

RB521S30-AU\_R2\_000A1

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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