



# RB521S30

## SURFACE MOUNT SCHOTTKY DIODES

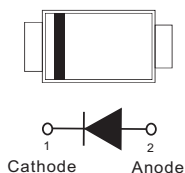
**VOLTAGE** 30 Volt **CURRENT** 200 mA

### FEATURES

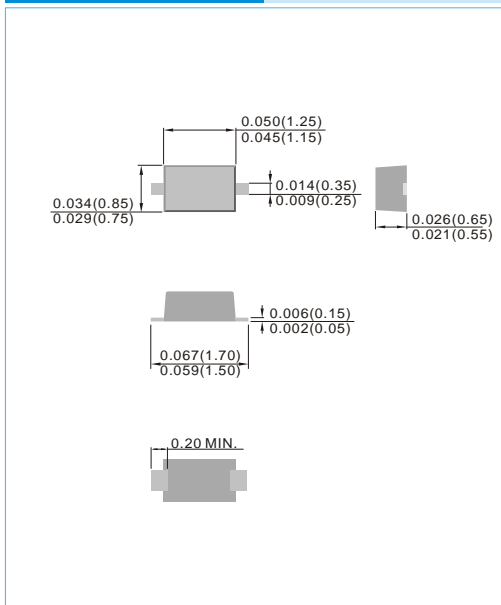
- Extremely High Switching Speed
- Surface mount package ideally suited for automatic insertion
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight: 0.00005 ounces, 0.0014 grams
- Marking: 21



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



### 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	$\mu\text{A}$	$V_R = 30\text{V}$



# RB521S30

## RATING AND CHARACTERISTIC CURVES

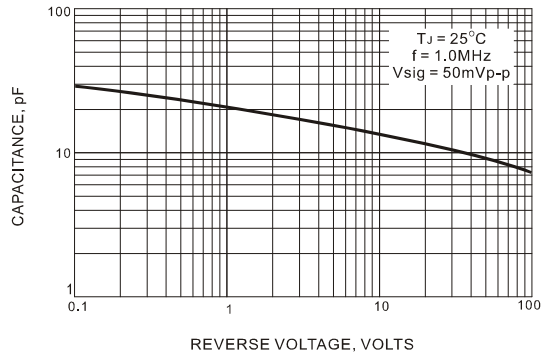


FIG.1 TYPICAL JUNCTION CAPACITANCE

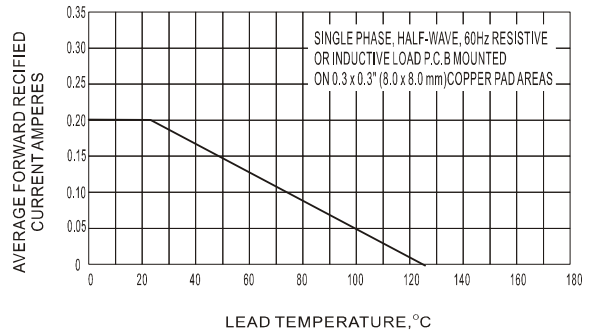


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING

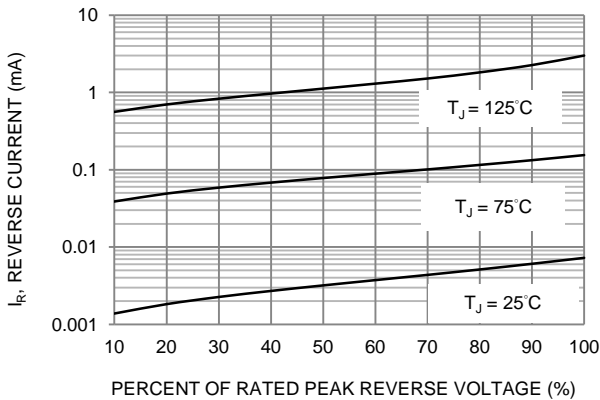


FIG.3 TYPICAL REVERSE CHARACTERISTICS

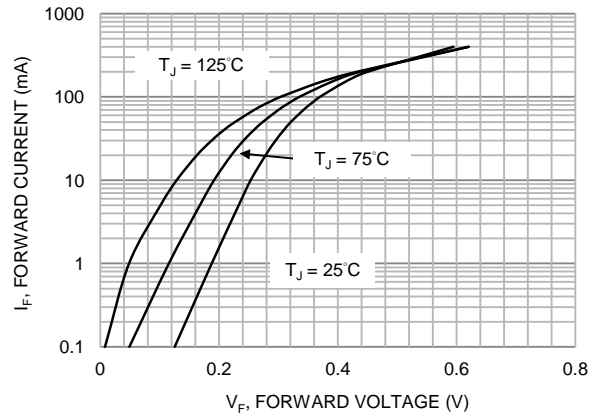


FIG.4 TYPICAL FORWARD CHARACTERISTICS

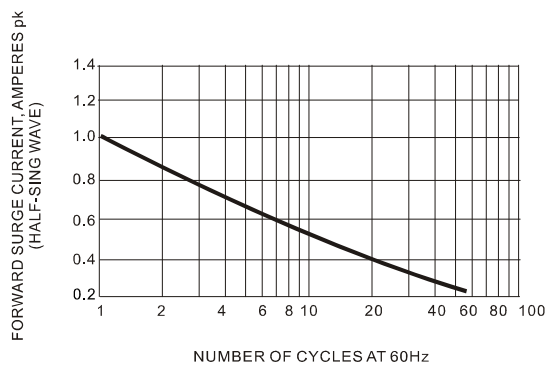


FIG.5 MAXIMUM NON-REPEITIVE SURGE CURRENT

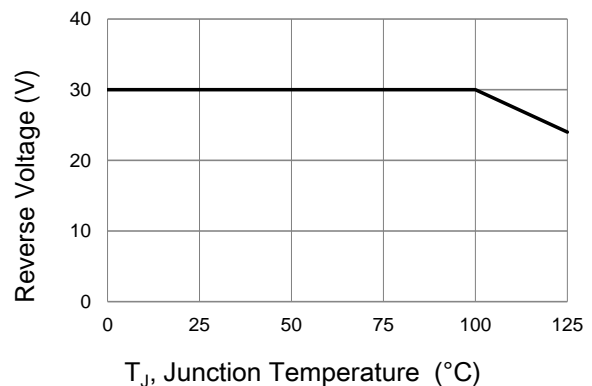


Fig.\* Operating Temperature Derating Curve

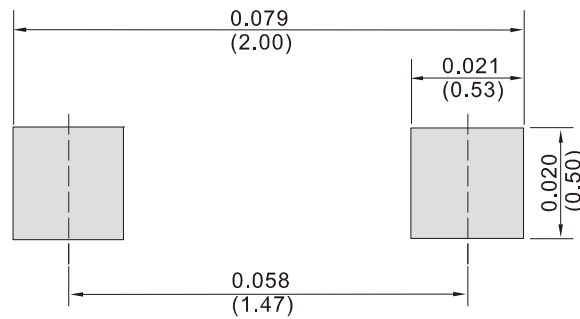


# RB521S30

## 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



# RB521S30

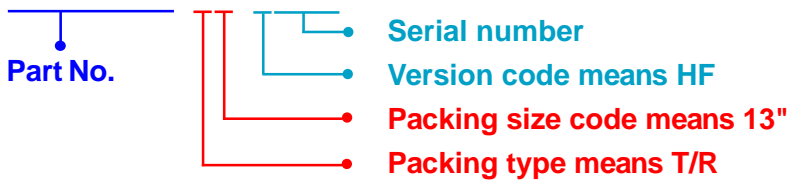
## Part No\_packing code\_Version

RB521S30\_R1\_00001

RB521S30\_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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



## RB521S30

---

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Panjit:](#)

[RB521S30\\_R1\\_00001](#) [RB521S30\\_R1\\_10001](#) [RB521S30\\_R2\\_00001](#) [RB521S30\\_R2\\_10001](#)