



# RB521S30FN2

## Surface Mount Schottky Diodes

<b>Voltage</b>	<b>30 V</b>	<b>Current</b>	<b>200 mA</b>
----------------	-------------	----------------	---------------

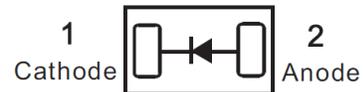
### Features

- 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 : DFN1006-2L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0006 grams

DFN1006-2L



## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	30	V
Maximum RMS Voltage	V <sub>RMS</sub>	24	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	30	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	0.2	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	2	A
Typical Thermal Resistance	R <sub>θJA</sub>	430	°C/W
Operating Junction Temperature Range	T <sub>J</sub>	-55~125	°C
Storage Temperature Range	T <sub>STG</sub>	-55~125	°C



# RB521S30FN2

## Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Breakdown Voltage	V <sub>BR</sub>	I <sub>R</sub> = 0.5 mA, T <sub>J</sub> = 25 °C	30	-	-	V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10 mA, T <sub>J</sub> = 25 °C	-	0.25	-	V
		I <sub>F</sub> = 20 mA, T <sub>J</sub> = 25 °C	-	0.28	-	
		I <sub>F</sub> = 100 mA, T <sub>J</sub> = 25 °C	-	0.37	-	
		I <sub>F</sub> = 200 mA, T <sub>J</sub> = 25 °C	-	-	0.51	
		I <sub>F</sub> = 10 mA, T <sub>J</sub> = 125 °C	-	0.13	-	
		I <sub>F</sub> = 20 mA, T <sub>J</sub> = 125 °C	-	0.19	-	
		I <sub>F</sub> = 100 mA, T <sub>J</sub> = 125 °C	-	0.3	-	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 10 V, T <sub>J</sub> = 25 °C	-	2	-	uA
		V <sub>R</sub> = 10 V, T <sub>J</sub> = 85 °C	-	100	-	
		V <sub>R</sub> = 30 V, T <sub>J</sub> = 25 °C	-	-	30	
		V <sub>R</sub> = 30 V, T <sub>J</sub> = 125 °C	-	3	-	mA



# RB521S30FN2

## TYPICAL CHARACTERISTIC CURVES

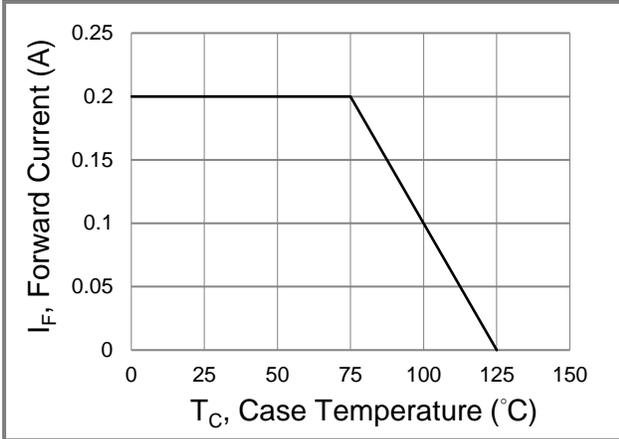


Fig.1 Forward Current Derating Curve

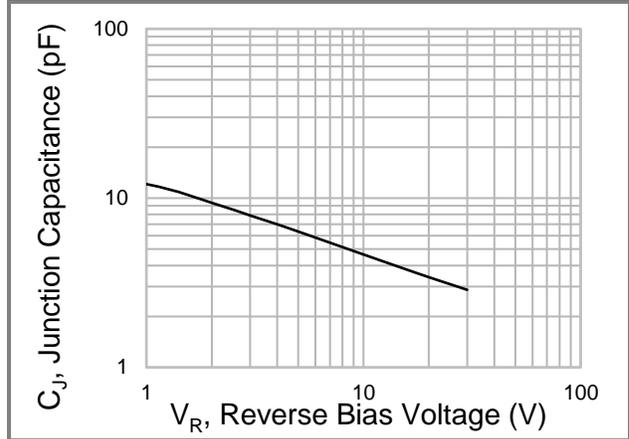


Fig.2 Typical Junction Capacitance

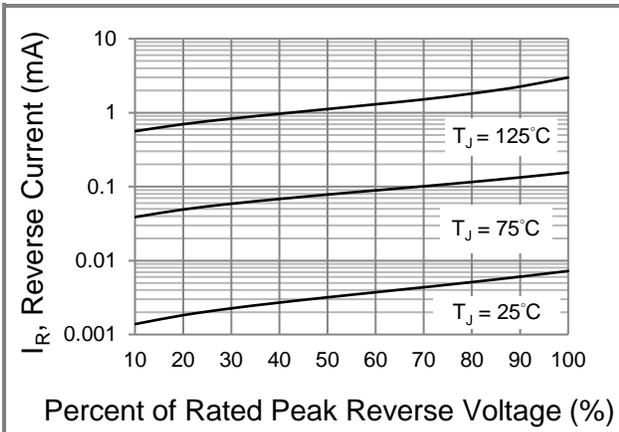


Fig.3 Typical Reverse Characteristics

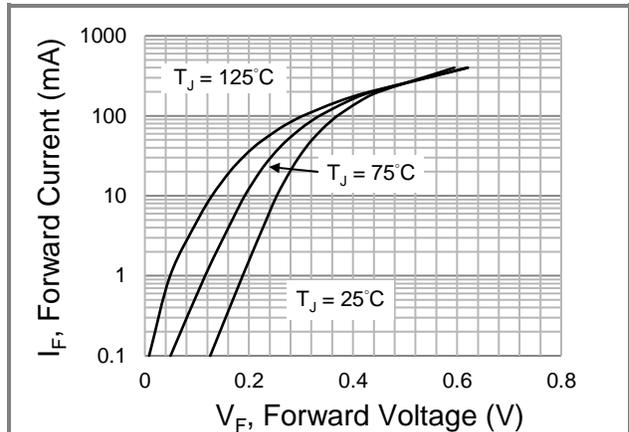


Fig.4 Typical Forward Capacitance

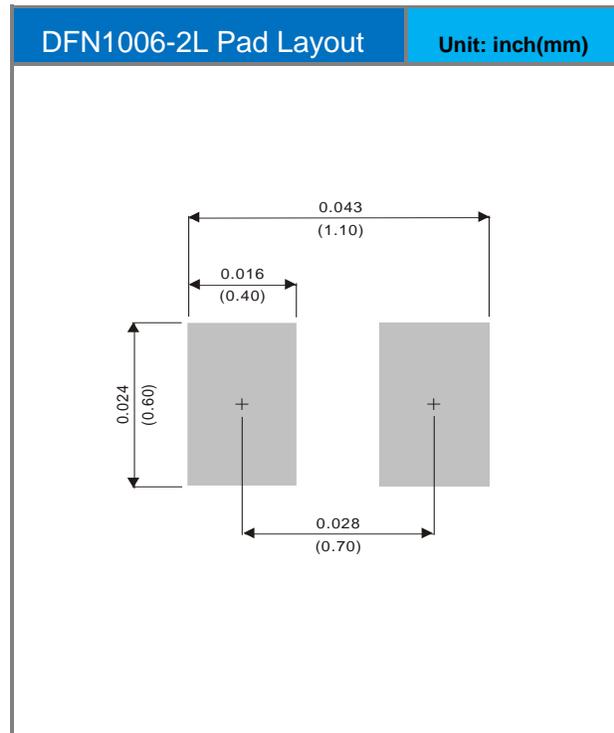
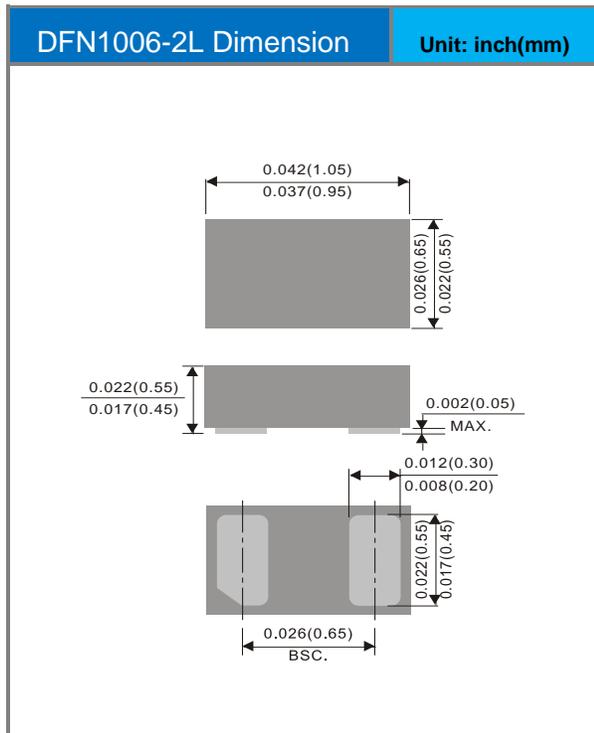


# RB521S30FN2

## Product and Packing Information

Part No.	Package Type	Packing Type	Marking	Version
RB521S30FN2	DFN1006-2L	10K pcs / 7" Reel	20	Halogen free RoHS compliant

## Packaging Information & Mounting Pad Layout





## RB521S30FN2

### 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.