



# RB521S30FN2

## Surface Mount Schottky Diodes

**Voltage**

**30 V**

**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 : 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



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## 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



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## TYPICAL CHARACTERISTIC CURVES

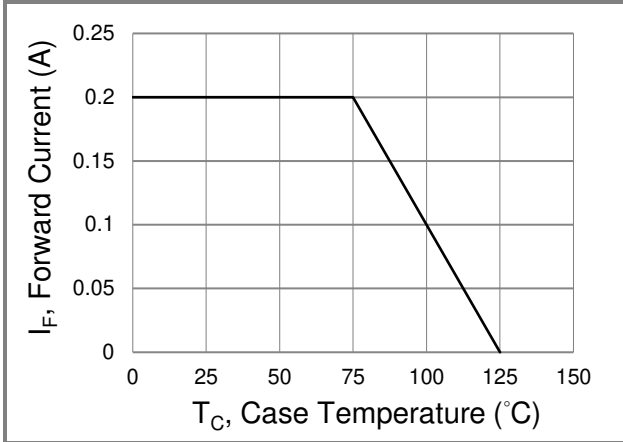


Fig.1 Forward Current Derating Curve

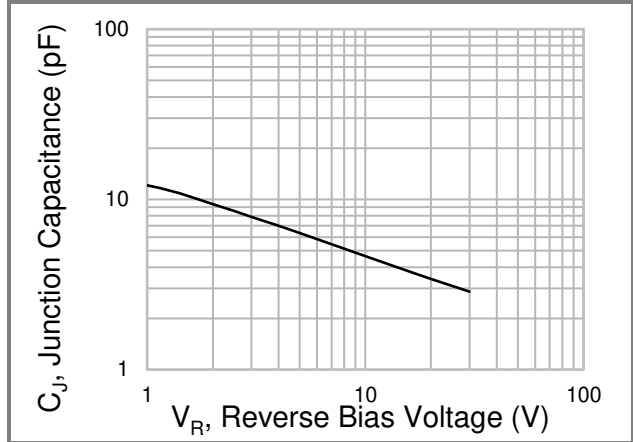


Fig.2 Typical Junction Capacitance

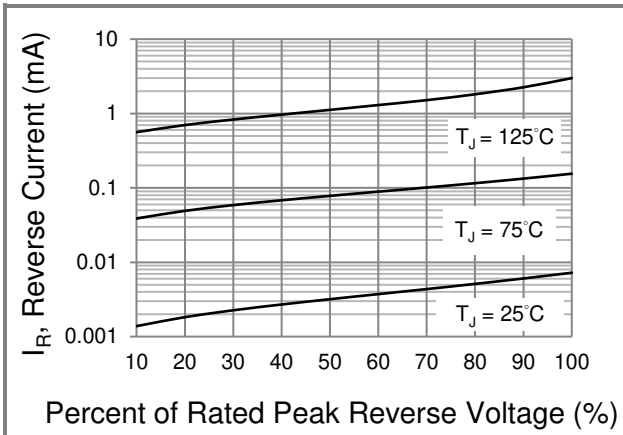


Fig.3 Typical Reverse Characteristics

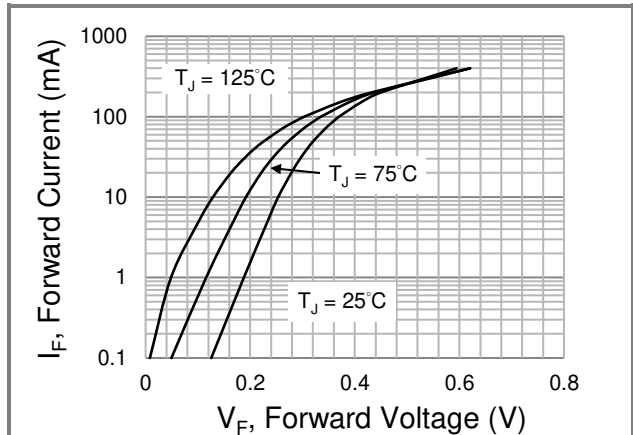


Fig.4 Typical Forward Capacitance

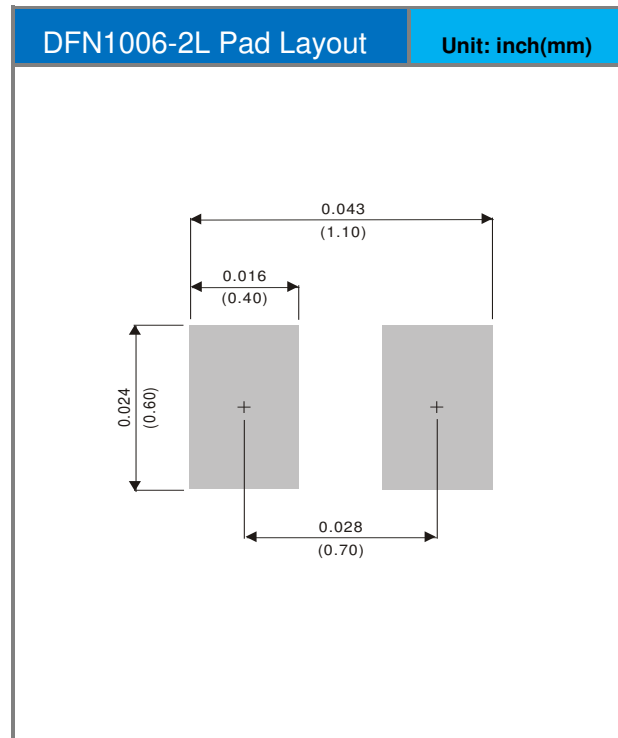
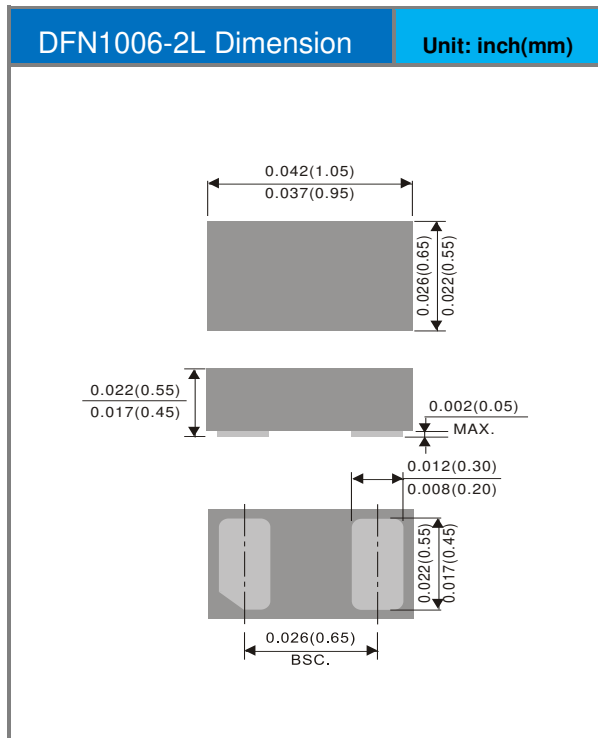


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## Product and Packing Information

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**

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