RB521S30FN2

SURFACE MOUNT SCHOTTKY DIODES
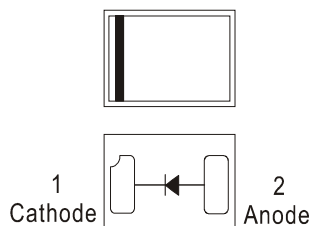
| VOLTAGE | 30 Volt | CURRENT | 200 mA |

DFN 2L   Unit：inch(mm)

FEATURES

- Extremely Hish Switching Speed
- Surface mount package ideally suited for autmatic insertion
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
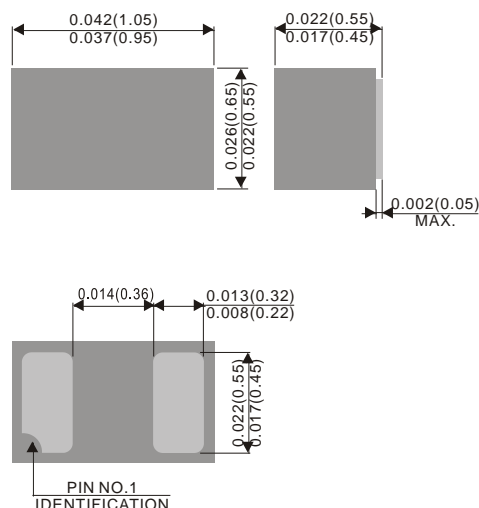- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: DFN 2L, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Appox Weight: 0.00004 ounces, 0.001 grams
- Marking: 20

0.042(1.05) / 0.037(0.95)
0.022(0.55) / 0.017(0.45)
0.026(0.65) / 0.022(0.55)
0.002(0.05) MAX.
0.014(0.36)
0.013(0.32) / 0.008(0.22)
0.022(0.55) / 0.017(0.45)

PIN NO.1 IDENTIFICATION

1 Cathode   2 Anode

ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	30	V
Maximum RMS Voltage	V_{RMS}	24	V
Maximum DC Blocking Voltage	V_{DC}	30	V
Maximun Average Forward Rectified Current	$I_{F(AV)}$	0.2	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	2	A
Typical Thermal Resistance	$R_{\theta JA}$	430	ºC/W
Operating Junction Temperature Range	T_{J}	-55 to + 125	ºC
Storage Temperature Range	T_{STG}	-55 to + 125	ºC

RB521S30FN2

ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise noted)

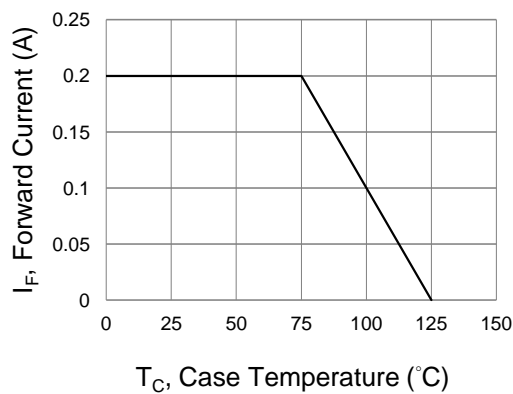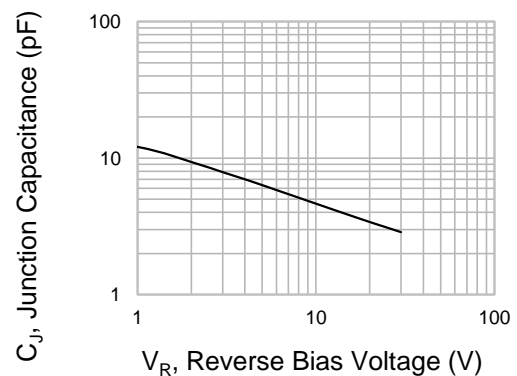| Parameter	Test Conditions		Symbol	MIN.	TYP.	MAX.	Units
Breakdown voltage	I_R=0.5mA	T_J=25°C	V_{BR}	30	-	-	V
Forward Voltage	I_F=10mA I_F=20mA I_F=100mA I_F=200mA	T_J=25°C	V_F	- - - -	0.25 0.28 0.37 -	- - - 0.51	V
	I_F=10mA I_F=20mA I_F=100mA	T_J=125°C		- - -	0.13 0.19 0.3	- - -	V
Reverse Current	V_R=10V	T_J=25°C T_J=85°C	I_R	- -	2 100	- -	μA
	V_R=30V	T_J=25°C T_J=125°C		- -	- 3	30 -	μA mA

Fig.1 Forward Current Derating Curve

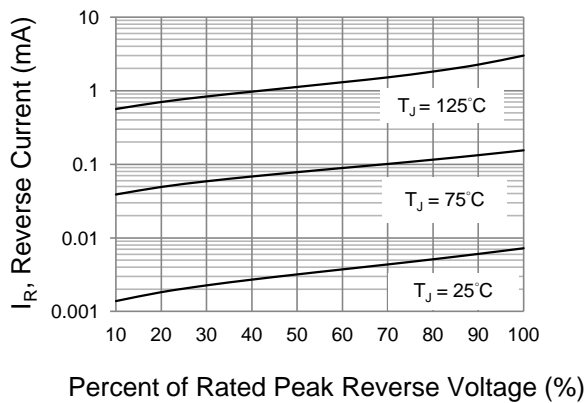**Fig.2 Typical Junction Capacitance**
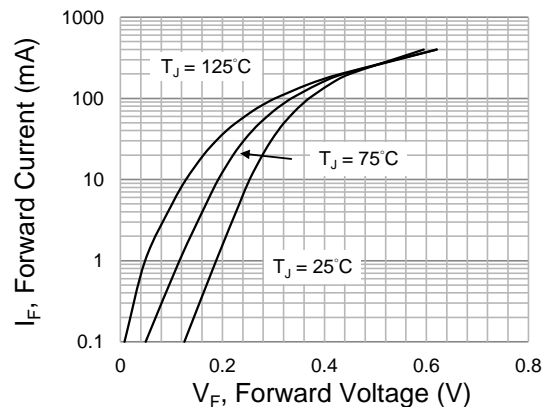

Fig.3 Typical Reverse Characteristics

Fig.4 Typical Forward Characteristics

Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
RB521S30FN2_R1_00001	DFN 2L	8K pcs / 7" reel	20	Halogen free

MOUNTING PAD LAYOUT

DFN 2L   Unit：inch(mm)
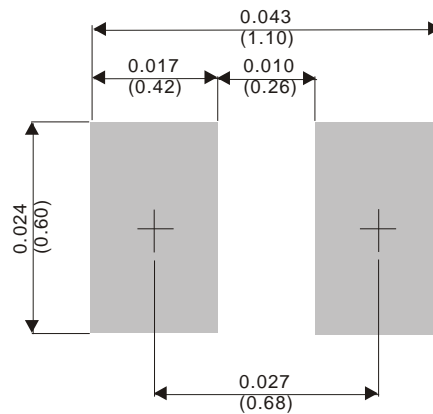
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