

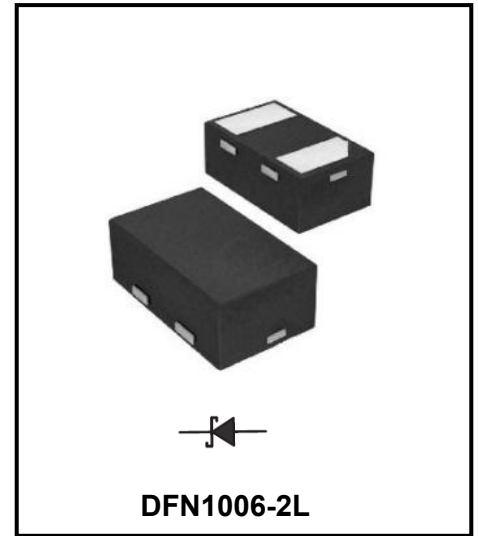
Schottky Barrier Diode

FEATURES

- ◆Extremely Small Surface Mount Package
- ◆200mA Average Rectified Forward Current
- ◆Extremely Fast Switching Speed
- ◆Low Forward Voltage
- ◆High Reliability

APPLICATIONS

- ◆High Speed Switching
- ◆Low Current Rectification
- ◆Inverse Polarity Protection



Marking Code	
RB521CS-30	F

Limiting Values(T_A = 25 °C, unless otherwise specified)

Characteristics	Symbols	Value	Units
Reverse Voltage(Repetitive peak)	V_{RM}	30	V
Reverse Voltage(DC)	V_R	30	V
Average Rectified Forward Current	I_O	200	mA
Peak Forward Surge Current	I_{FSM}	500	mA
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55~125	°C

Electrical Characteristics(T_A = 25 °C, unless otherwise specified)

Characteristics	Test Condition	Symbols	Min	Typ	Max	Units
Reverse Current	V _R = 10V	I_R	-	-	30	μA
Breakdown Voltage	I _T = 500 μA	V_{BR}	30	-	-	V
Forward Voltage	I _F = 10mA	V_F	-	-	0.35	V
	I _F = 20mA		-	-	0.38	V
	I _F = 100mA		-	-	0.4	V
	I _F = 200mA		-	-	0.5	V

Typical Characteristics

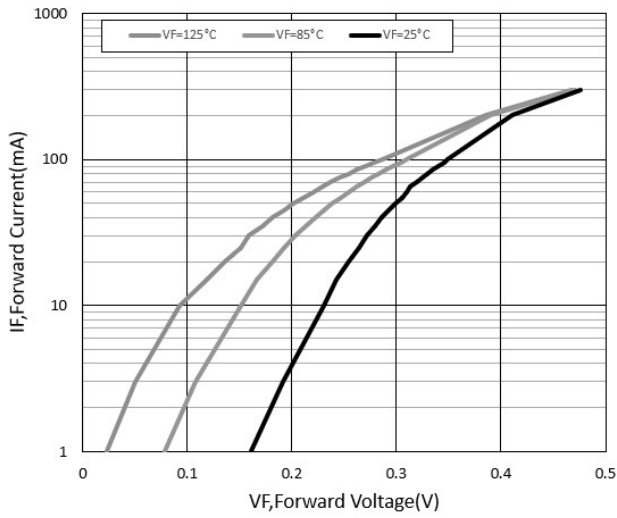


Fig.1 Forward Characteristics

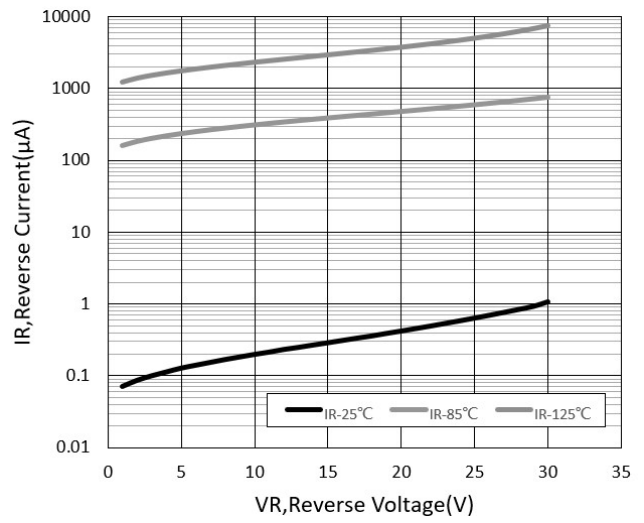


Fig.2 Reverse Characteristics

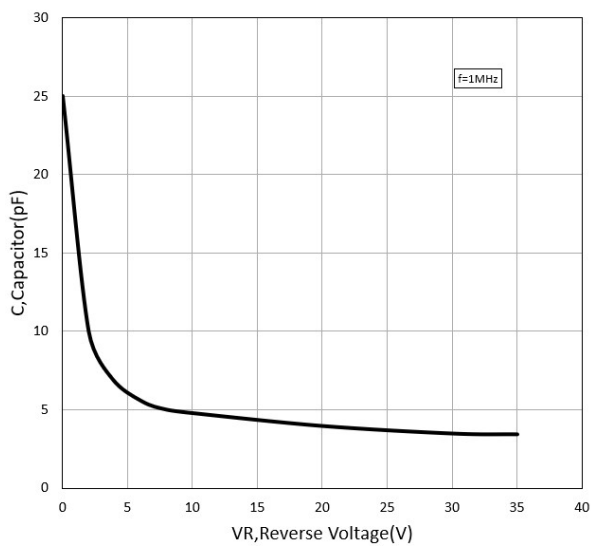


Fig.3 C-V Characteristics

Ordering information

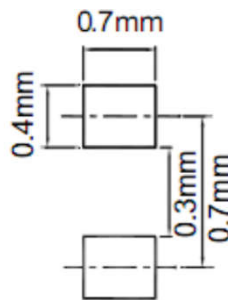
Package	Packing Description	Packing Quantity
DFN1006-2L	Tape/Reel,7"reel	10000PCS/Reel 400000PCS/Carton

Package Dimensions

DFN1006-2L

Dim.	Millimeter(mm)		Inches	
	Min.	Max.	Min.	Max.
A	0.350	0.450	0.014	0.018
D	0.550	0.650	0.022	0.026
E	0.950	1.050	0.037	0.041
D1	0.420	0.520	0.017	0.020
E1	0.550	0.650	0.022	0.026
L	0.270	0.370	0.011	0.015
L1	-	0.100	-	0.004

The recommended mounting pad size



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