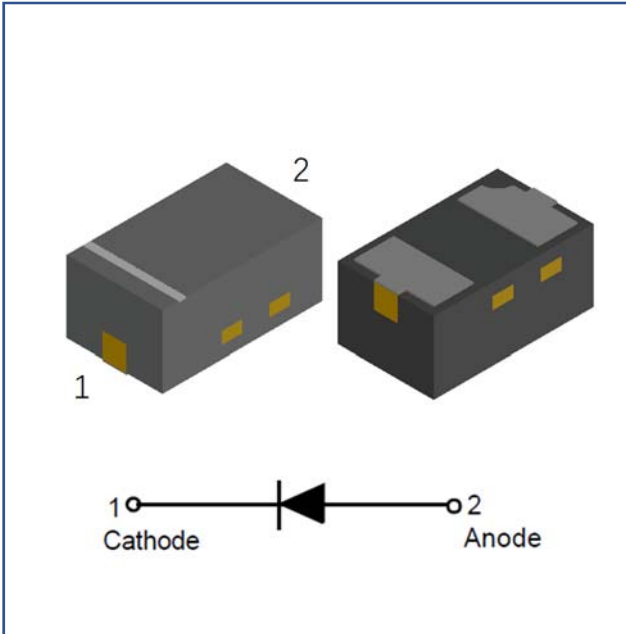


Small Signal Schottky Diode



Features

- Moisture sensitivity level 3
- Reverse voltage: 40V
- Average forward current: 200mA

Application

- High frequency and low voltage rectifier

Mechanical data

- **Package:** DFN1006-2L
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			T
Repetitive peak reverse voltage	V _{RRM}	V	40
Forward current	I _F	mA	200
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	I _{FSM}	A	0.5
Non-repetitive surge peak forward current @ t=1ms square wave			1
Power dissipation	P _D	mW	100
Junction temperature	T _J	°C	-55 to +125
Storage temperature	T _{STG}	°C	-55 to +125



RB521S-40L2

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■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse voltage	V _R	V	I _R =100uA	40		
Forward voltage	V _F	V	I _F =200mA			0.59
Reverse leakage current	I _R	uA	V _R =30V			5

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	R _{θJ-A} ⁽¹⁾	°C/W	1000
Thermal resistance, junction-to-case	R _{θJ-C} ⁽¹⁾	°C/W	800

Note:

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 1.7cm*1cm copper pad areas;



■ Characteristics

Fig 1: P_D-T_a Curve

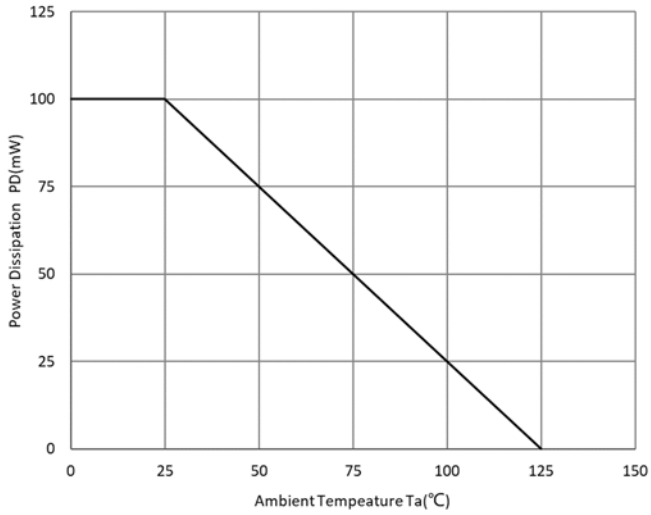


Fig 2: Capacitance Capability

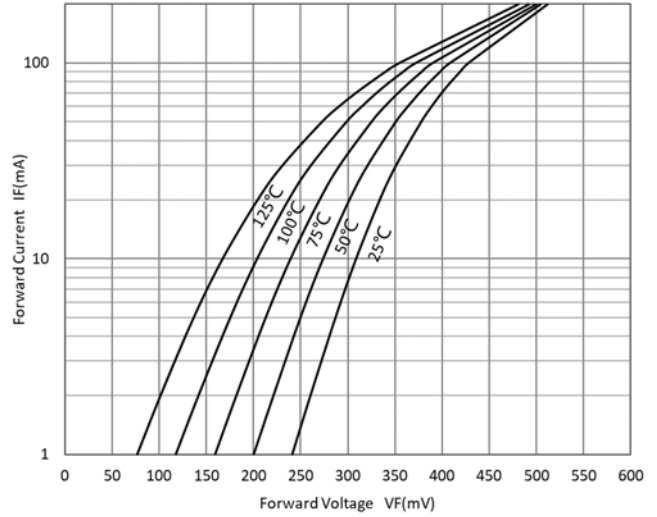


Fig 3: Typical Forward Characteristics

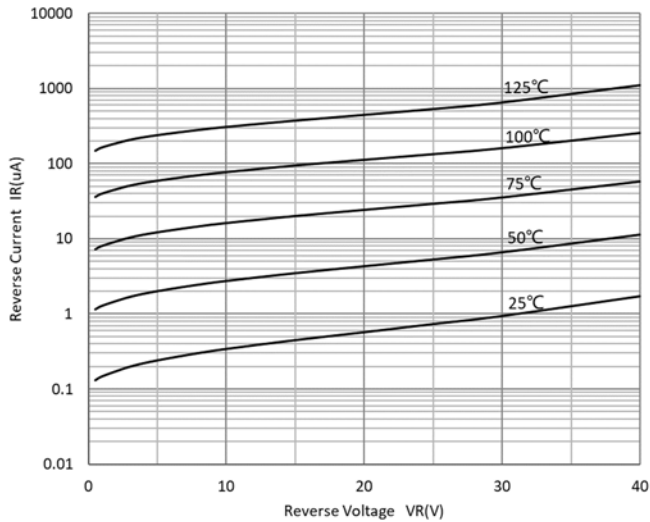
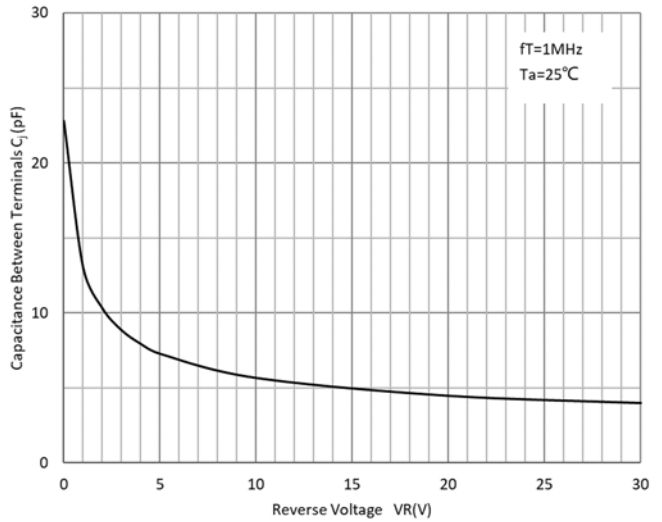


Fig 4: Typical Reverse Characteristics





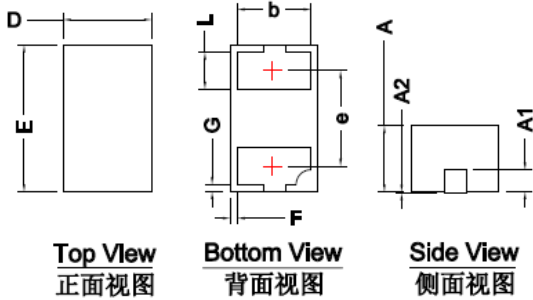
RB521S-40L2

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Ordering Information

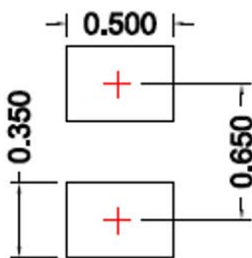
Preferred P/N	Packing Code	Unit Weight(g)	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
RB521S-40L2	F1	Approximate 0.9	10000	100000	400000	Tape & Reel

Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	0.50	0.60	0.70
E	0.90	1.00	1.10
A	0.35	0.45	0.55
A1	0.15 BSC		
A2			0.10
F	0.005		
G	0.005		
L	0.15	0.25	0.35
b	0.41	0.50	0.59
e	0.65 BSC		

Suggested Pad Layout





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