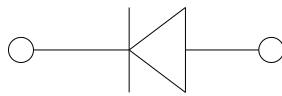
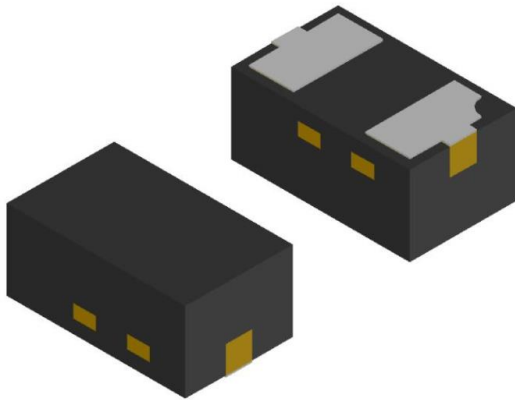


## Small Signal Schottky Diode



### Features

- Low Forward Voltage
- High Conductance
- Lead Free Finish/RoHS Compliant
- Small package saves board space
- Moisture Sensitivity Level 3

### Mechanical Data

- **Package:** DFN1006-2L
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** D1

### ■Maximum Ratings (T<sub>a</sub>=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P <sub>D</sub>	mW		100
Storage Temperature	T <sub>STG</sub>	°C		-40 to +125
Junction Temperature	T <sub>J</sub>	°C		125
DC Reverse Voltage	V <sub>R</sub>	V		40
Average Rectified Forward Current	I <sub>FAV</sub>	mA		200
Peak Forward Surge Current	I <sub>FSM</sub>	A	8.3ms single half sine-wave	1.0
Repetitive Peak Forward Current	I <sub>FRM</sub>	A	tp=1ms, δ=0.25	0.5

### ■Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

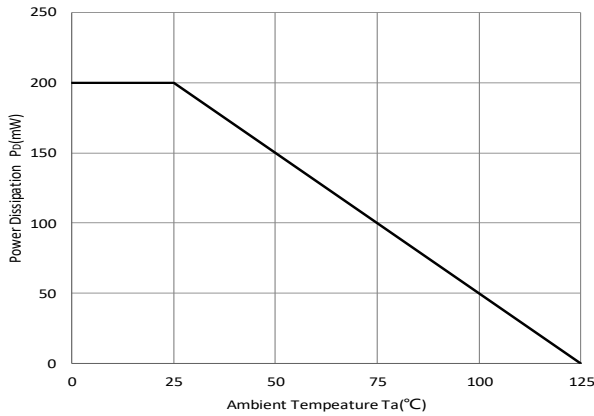
Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V <sub>R</sub>	V	I <sub>R</sub> = 100uA	40	-
Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =10mA	-	0.39
			I <sub>F</sub> =100mA	-	0.55
Reverse Leakage Current	I <sub>R</sub>	uA	V <sub>R</sub> =10V	-	1
			V <sub>R</sub> =40V	-	10

### ■Ordering Information (Example)

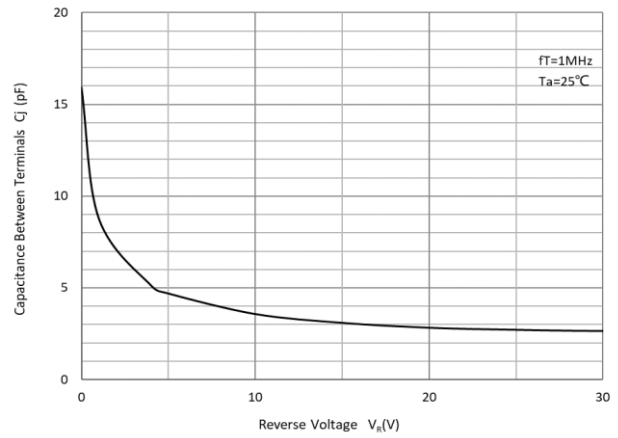
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB520S-40L2	Approximate 0.9	10K	100K	400K	Tape & Reel

## ■ Characteristics (Typical)

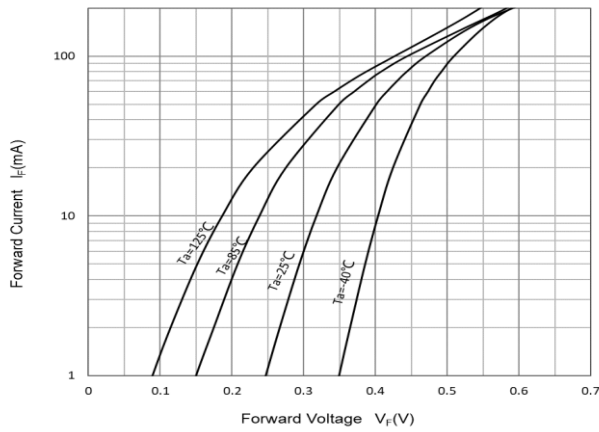
**Fig 1: P<sub>D</sub>-T<sub>a</sub> Curve**



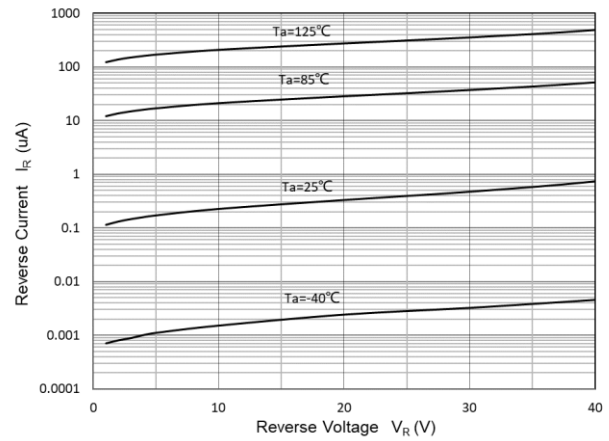
**Fig 2: Capacitance Capability**



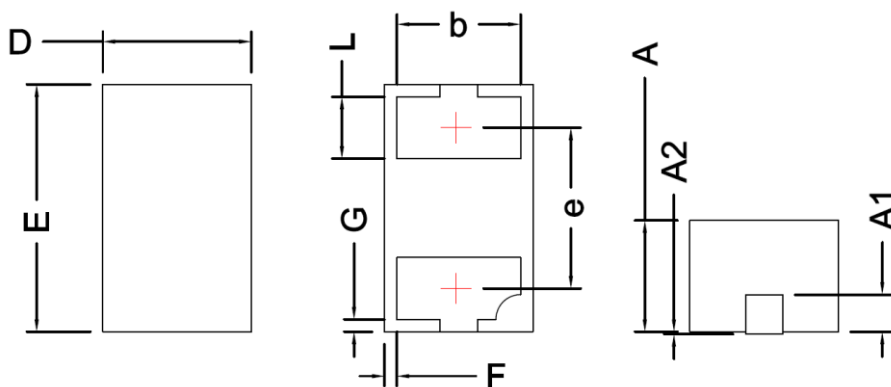
**Fig 3: Typical Forward Characteristics**



**Fig 4: Typical Reverse Characteristics**

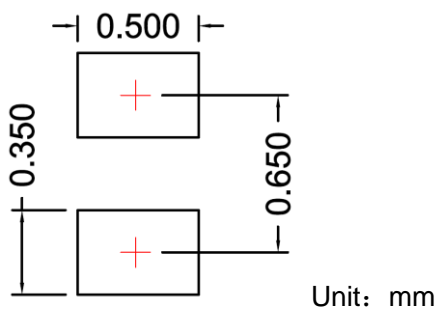


## ■ Outline Dimensions



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		

## ■ Soldering Footprint





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