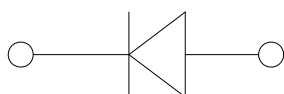
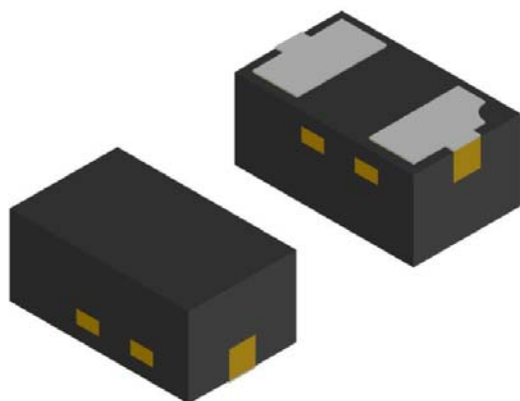


Small Signal Schottky Diode



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_a=25°C Unless otherwise specified)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P _D	mW		100
Storage Temperature	T _{STG}	°C		-40 to +125
Junction Temperature	T _J	°C		125
DC Reverse Voltage	V _R	V		40
Average Rectified Forward Current	I _{FAV}	mA		200
Peak Forward Surge Current	I _{FSM}	A	8.3ms single half sine-wave	1.0

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

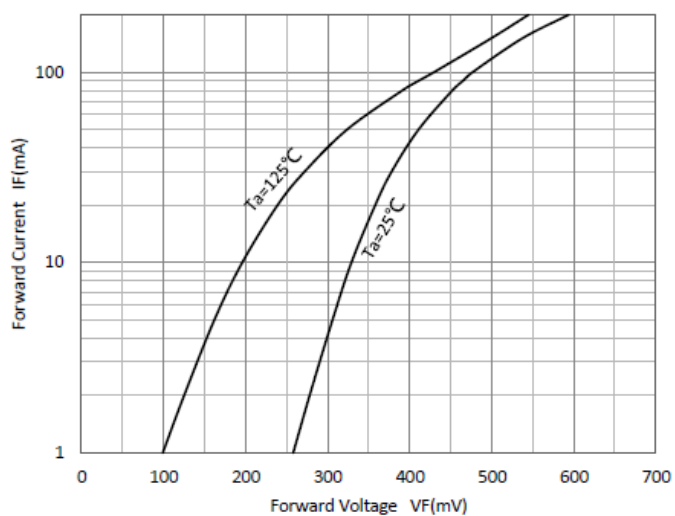
Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V _R	V	I _R =100uA	40	-
Forward Voltage	V _F	V	I _F =10mA	-	0.39
			I _F =100mA	-	0.55
Reverse Leakage Current	I _R	uA	V _R =10V	-	1
			V _R =40V	-	10

■Ordering Information (Example)

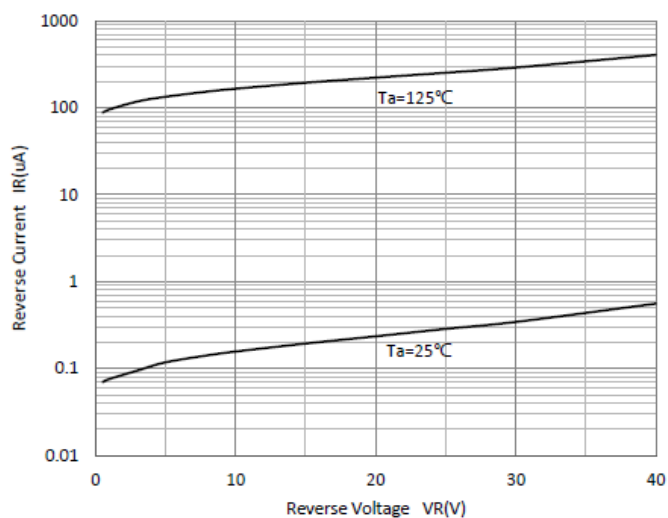
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB520S-40L2	Approximate 0.9	10K	100K	400K	Tape & Reel

■ Characteristics (Typical)

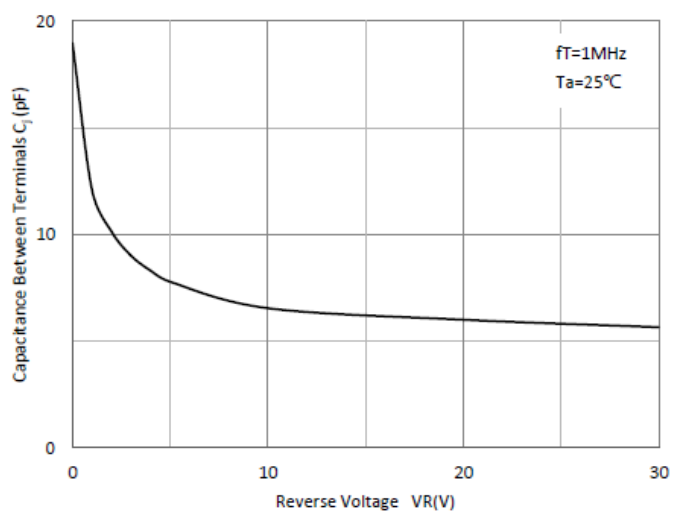
Forward Characteristics



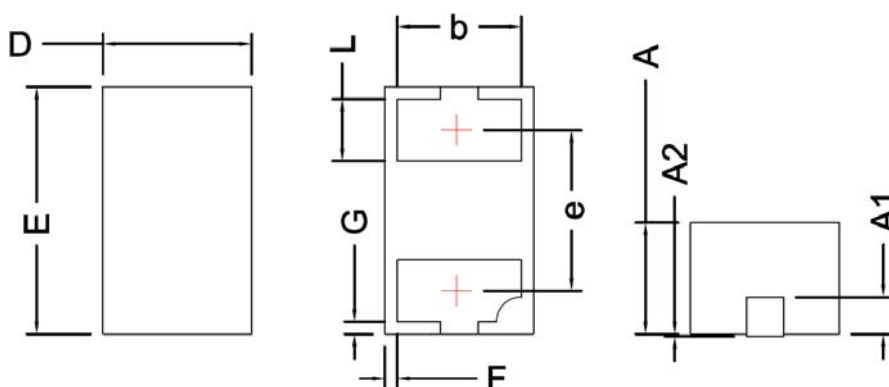
Reverse Characteristics



Capacitance Characteristics

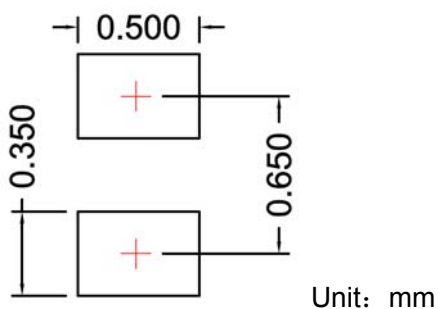


■ Outline Dimensions



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





Disclaimer

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