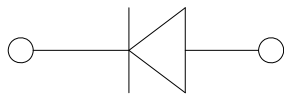
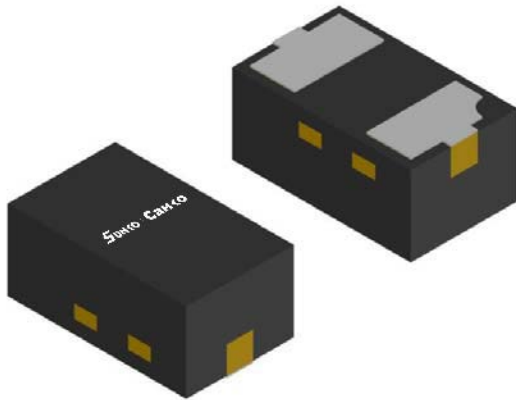


Small Signal Schottky Diode



Features

- Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Conductance
- Lead Free Finish/
- Small package saves board space
- Moisture Sensitivity Level 3
- V_R 30V
- I_{FAV} 200mA

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:** E1

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	Limit Max
Power Dissipation	P_D	mW		100
Storage Temperature	T_{STG}	$^\circ\text{C}$		-40 to +125
Junction Temperature	T_J	$^\circ\text{C}$		125
DC Reverse Voltage	V_R	V		30
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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

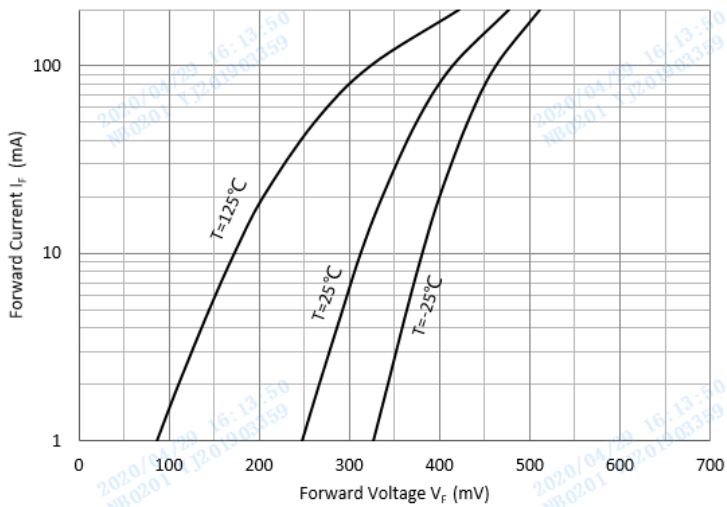
Item	Symbol	Unit	Conditions	Min	Max
Breakdown Voltage	V_R	V	$I_R=500\mu\text{A}$	30	
Forward Voltage	V_F	V	$I_F=200\text{mA}$		0.6
Reverse Leakage Current	I_R	μA	$V_R=10\text{V}$		1

■Ordering Information (Example)

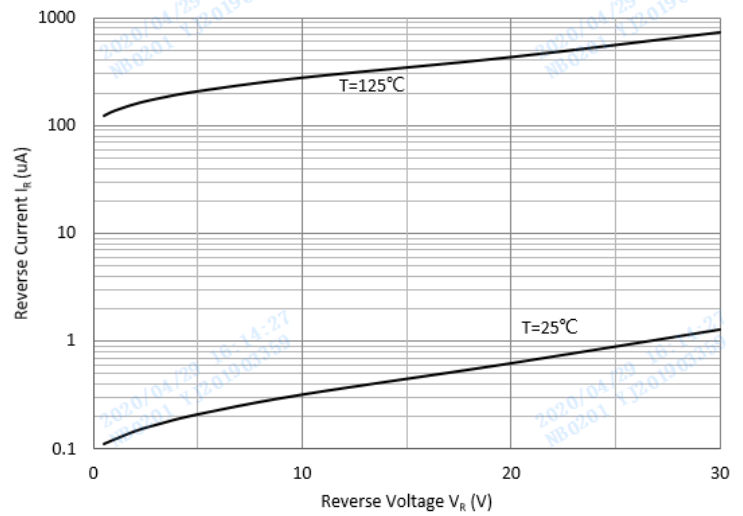
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB520S-30L2	Approximate 0.9	10K	100K	400K	Tape & Reel

■ Characteristics (Typical)

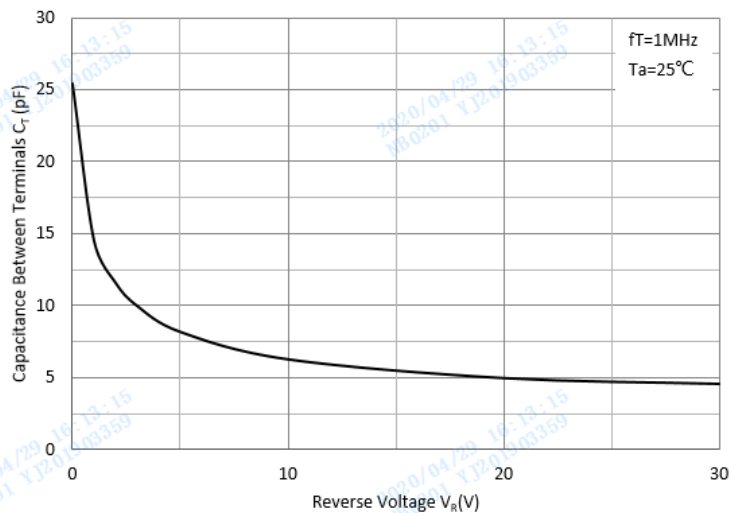
Forward Characteristics



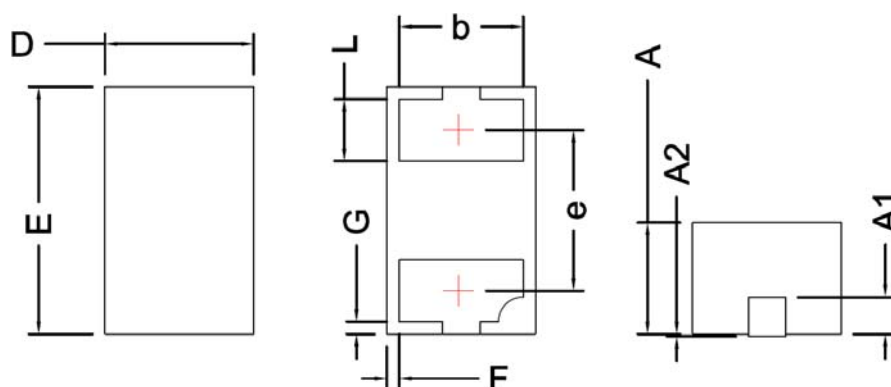
Reverse Characteristics



Capacitance Characteristics

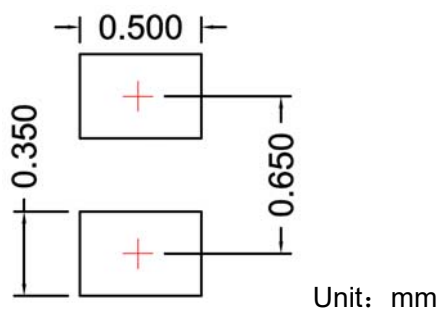


■ Outline Dimensions



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



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