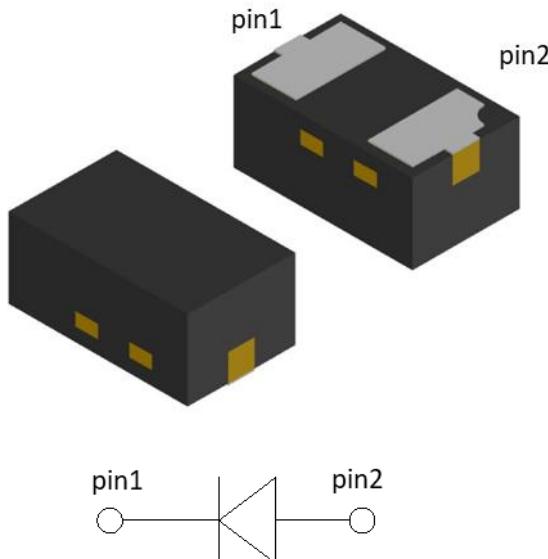


## Small Signal Schottky Diode



### Features

- Low Forward Voltage
- Epoxy Meets UL 94 V-0 Flammability Rating
- High Conductance
- Lead Free Finish/RoHS Compliant
- Small package saves board space
- Moisture Sensitivity Level 3
- $V_R = 40V$
- $I_{FAV} = 30mA$

### 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:** 51

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

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Reverse voltage	$V_R$	V		40
Peak forward surge current	$I_{FSM}$	A	$tp=8.3ms, \text{half sine}$	0.2
Average forward current	$I_{FAV}$	mA		30
Power dissipation	$P_{tot}$	mW		100
Maximum junction temperature	$T_j$	°C		125
Storage temperature range	$T_{stg}$	°C		-55 ~+125

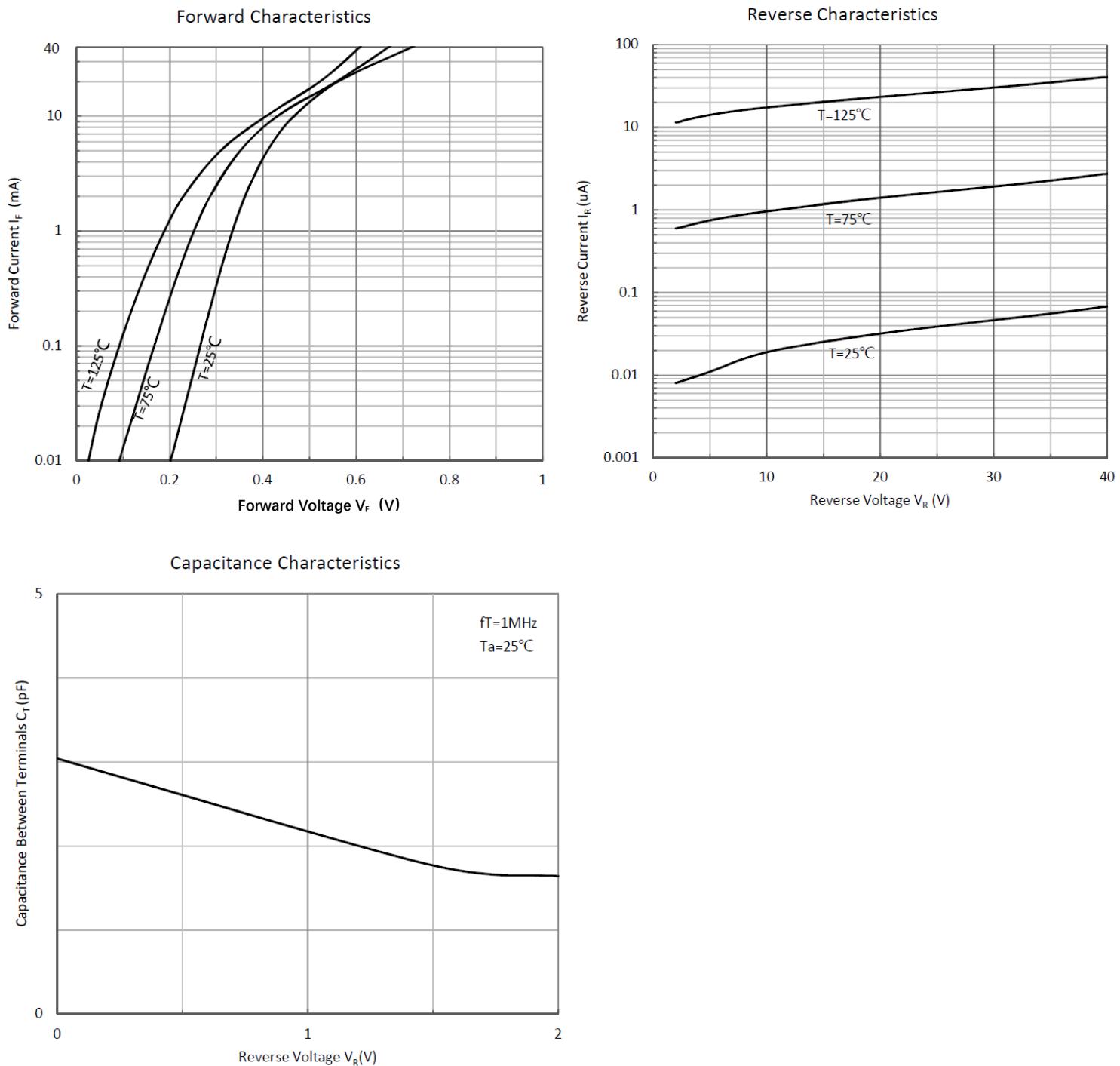
### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

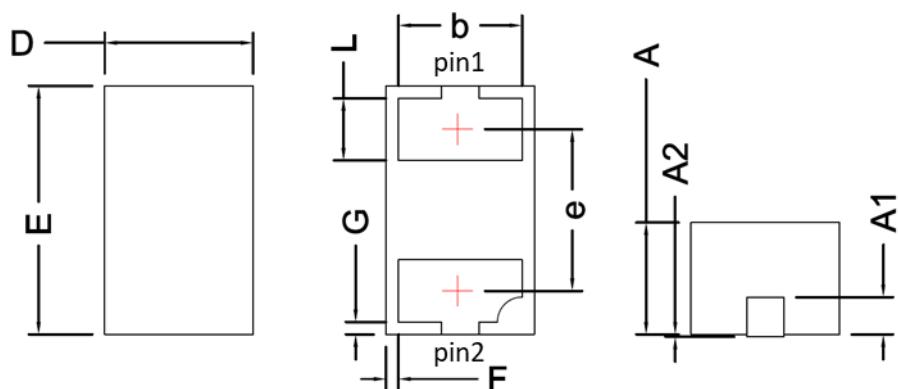
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$IR=100\mu A$	40	
Forward Voltage	$V_F$	V	$IF=1mA$		0.37
Reverse Leakage Current	$I_R$	uA	$VR=30V$		0.5
Maximum Junction capacitance	$C_J$	pF	$V_R=0V, f=1MHz$		5

### ■ Ordering Information (Example)

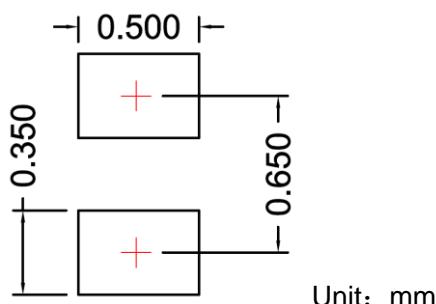
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB751S-40L2	Approximate 0.9	10K	100K	400K	Tape & Reel

## ■ Characteristics (Typical)



**■ 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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