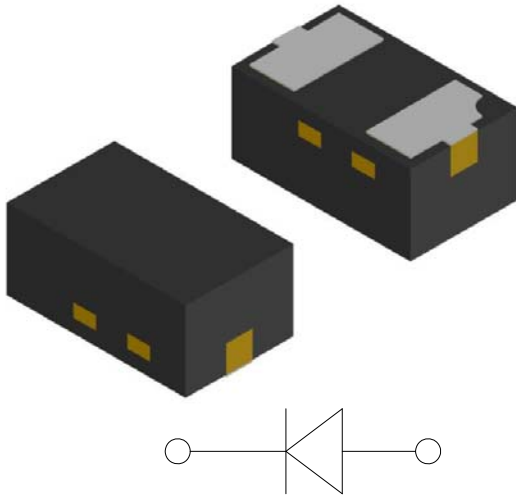


## Small Signal Schottky Diode



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

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

### ■Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

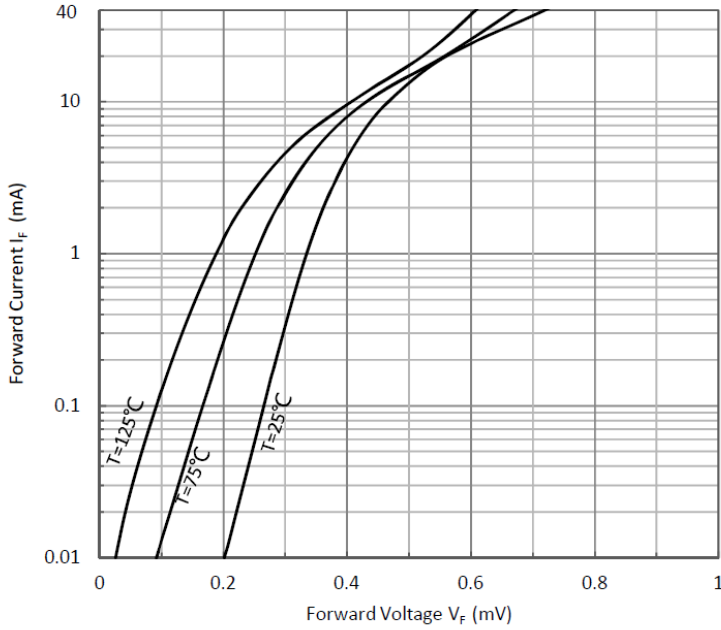
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	$V_R$	V	$I_R=100\mu\text{A}$	40	
Forward Voltage	$V_F$	V	$I_F=1\text{mA}$		0.37
Reverse Leakage Current	$I_R$	$\mu\text{A}$	$V_R=30\text{V}$		0.5
Maximum Junction capacitance	$C_J$	pF	$V_R=0\text{V}, f=1\text{MHz}$		5

### ■Ordering Information (Example)

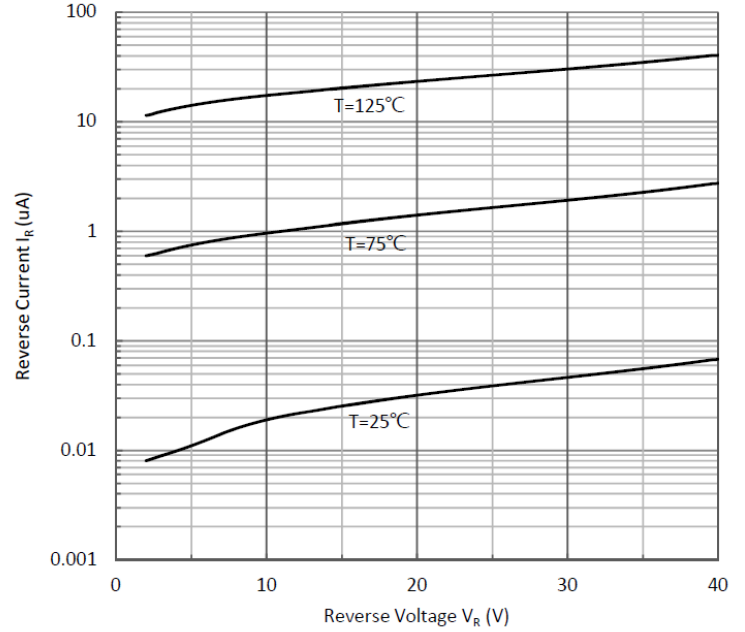
PREFERRED P/N	UNIT WEIGHT(mg)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RB751S-40L2	Approximate 0.9	10K	100K	400K	Tape & Reel

## ■ Characteristics (Typical)

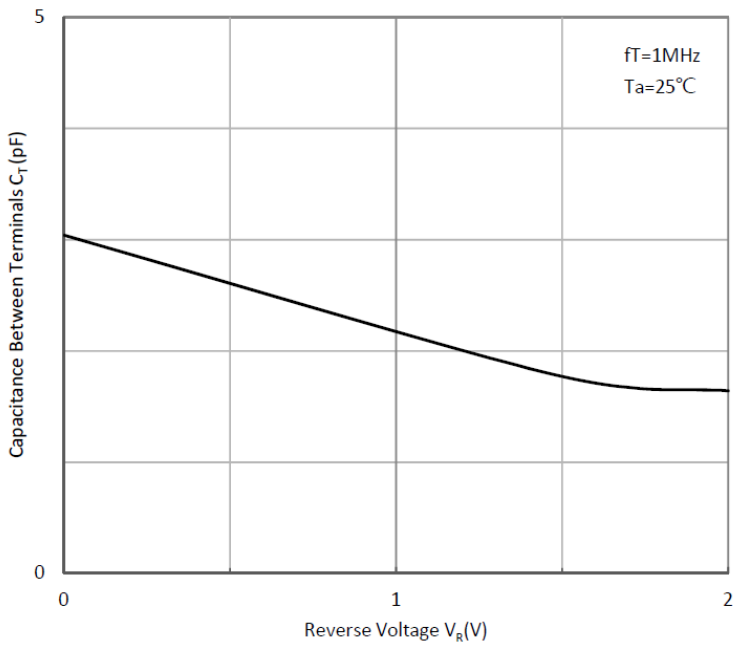
Forward Characteristics



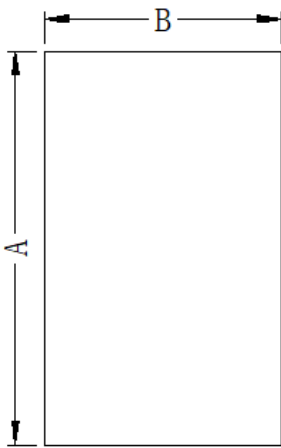
Reverse Characteristics



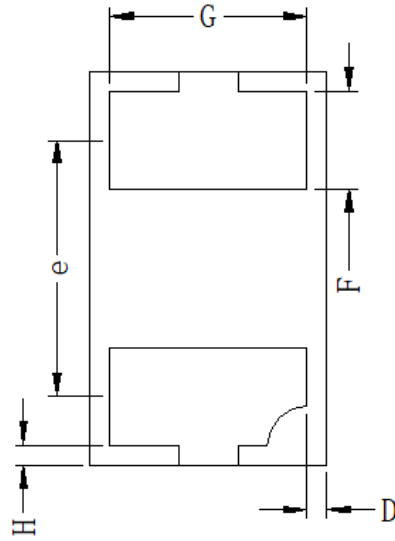
Capacitance Characteristics



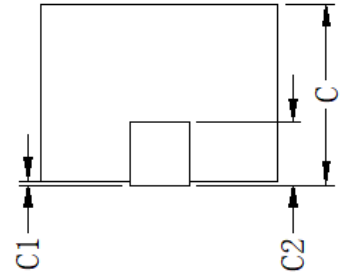
## ■Outline Dimensions



Top View



Bottom View



Side View

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.95	1.00	1.05
B	0.55	0.60	0.65
C	0.40	0.45	0.50
C1			0.05
D	0.01	0.05	0.09
e	0.65 BSC		
F	0.20	0.25	0.30
G	0.45	0.50	0.55
H	0.01	0.05	0.09
C2	0.18 BSC		



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