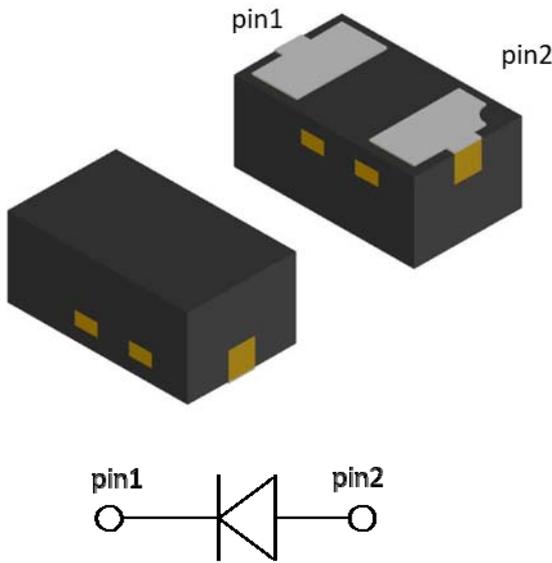


Small Signal Schottky Diode



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
Repetitive Peak Forward Current	I_{FRM}	A	$t_p=1\text{ms, } \delta=0.25$	1
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_{stg}	$^\circ\text{C}$		-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	μA	$V_R=30\text{V}$		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)

Fig 1: Capacitance Capability

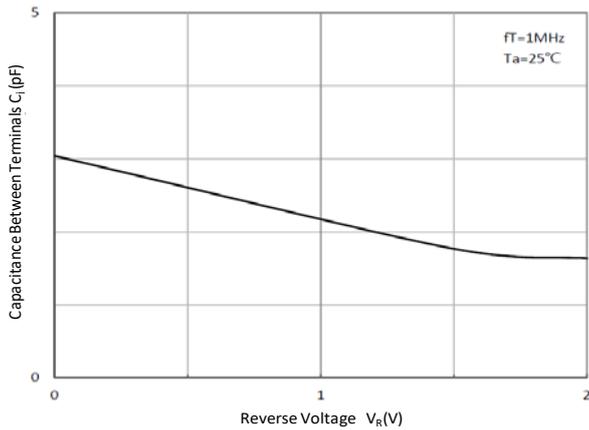


Fig 2: Typical Forward Characteristics

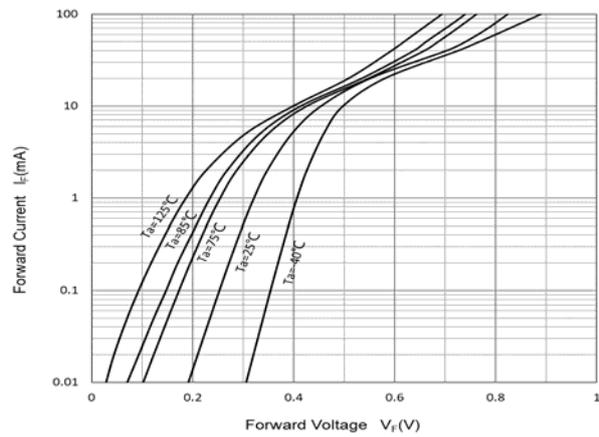
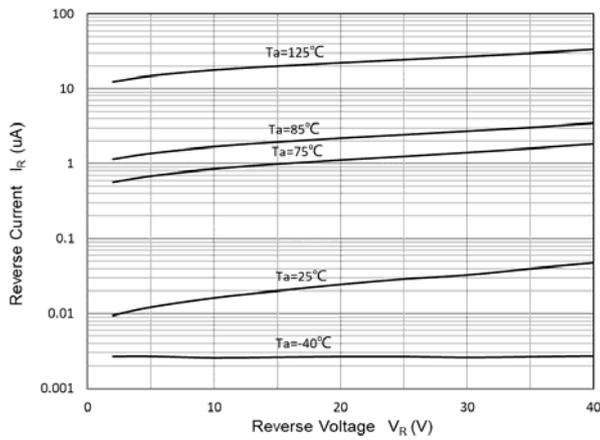
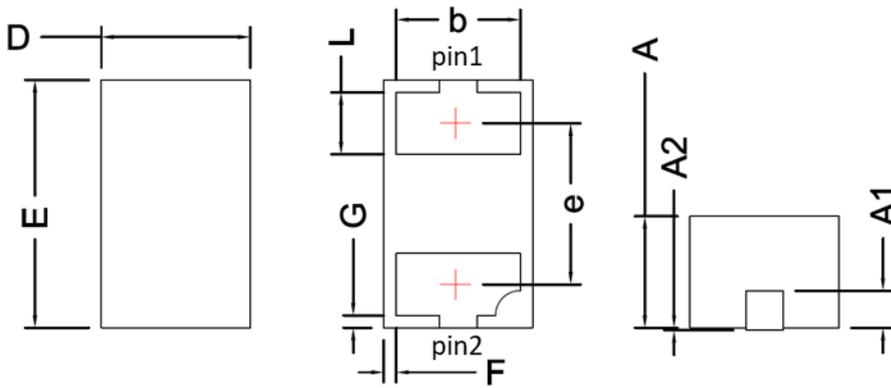


Fig 3: Typical Reverse Characteristics

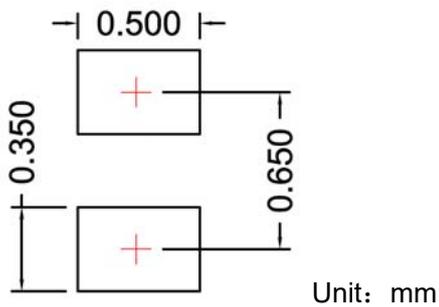


■ Outline Dimensions



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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