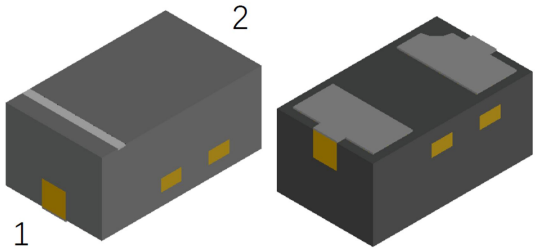
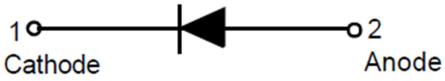
BAT54L2

Small Signal Schottky Diode





Features

- Moisture sensitivity level 3
- Reverse voltage: 30V
- Average forward current: 200mA

Application

- Ultra-Small Surface Mount Package
- Low Forward Voltage Drop
- Extremely Fast Switching Speed

Mechanical data

- **Package**: DFN1006-2L
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ **Maximum Ratings** (T_a=25℃ Unless otherwise specified)

Parameter	Symbol	Unit	Value
Device marking code			L91
Repetitive peak reverse voltage	V_{RRM}	V	30
RMS Reverse Voltage	V_{RMS}	V	21
Maximum DC Blocking Voltage	V_{DC}	V	30
Forward current	I_F	mA	200
Repetitive Peak Forward Current@ tp=1ms, δ=0.25	I_{FRM}	mA	300
Non-repetitive surge peak forward current @ t=8.3ms half-sine wave	I_{FSM}	mA	600
Power dissipation	P_D	mW	160
Junction temperature	T_J	℃	-55 to +125
Storage temperature	T_{STG}	℃	-55 to +125

■ Electrical Characteristics (Ta=25℃ Unless otherwise specified)

Parameter	Symbol	Unit	Conditions	Min	Typ	Max
Reverse breakdown voltage	V_{BR}	V	I_R=0.1mA	30		
Reverse leakage current	I_R	uA	V_R=25V			2
Forward voltage	V_F	mV	I_F=0.1mA			240
			I_F=1mA			320
			I_F=10mA			400
			I_F=30mA			500
			I_F=100mA			1000
Capacitance	C_J	pF	V_R=1.0V,f=1MHz		10	
Reverse Recovery Time	t_{rr}	ns	I_F=10mA, I_R=1~10mA, R_L=100Ω,		5	

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	RθJ-A(1)	℃/W	625

■ Ordering Information

Prefered P/N	Packing Code	Unit Weight(mg)	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
BAT54L2	F1	Approximate 0.9	10k	100k	400k	Tape & Reel

■ Characteristics

Fig 1：P_D-Ta Curve

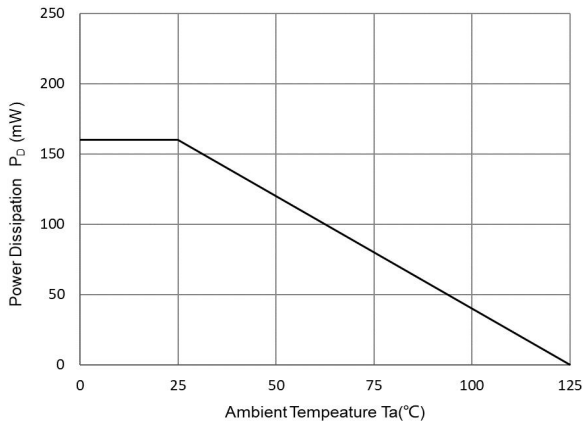


Fig 2：Capacitance Capability

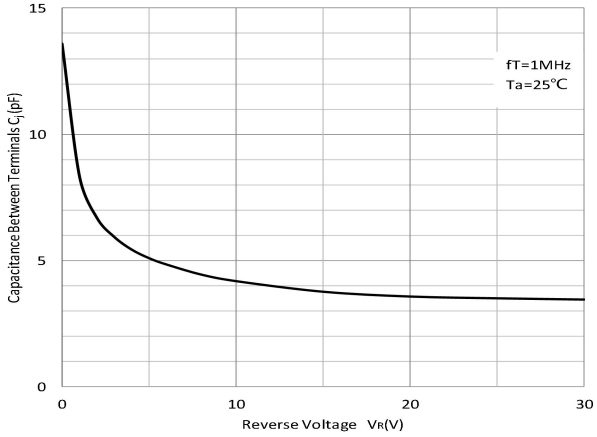


Fig 3：Typical Forward Characteristics

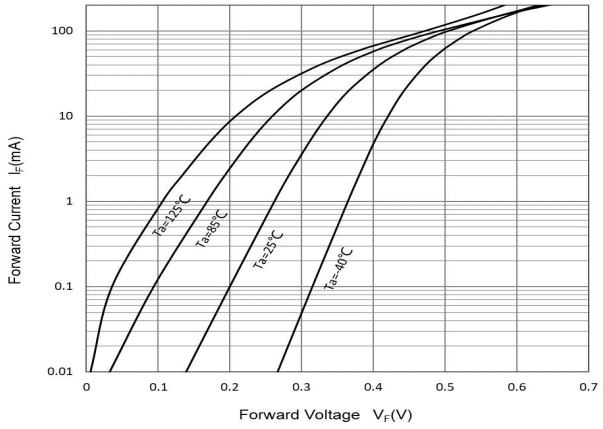
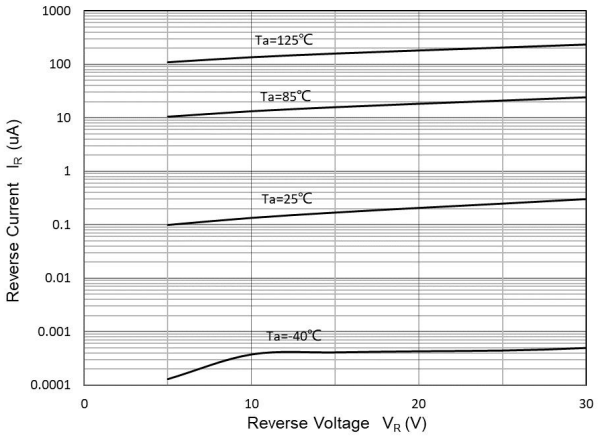
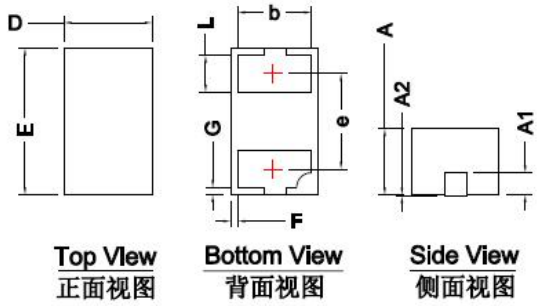


Fig 4：Typical Reverse Characteristics

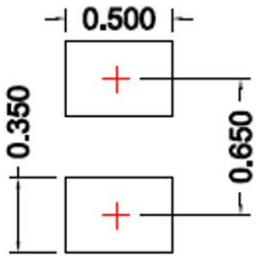


■ Outline Dimensions



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	

■ Suggested Pad Layout



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