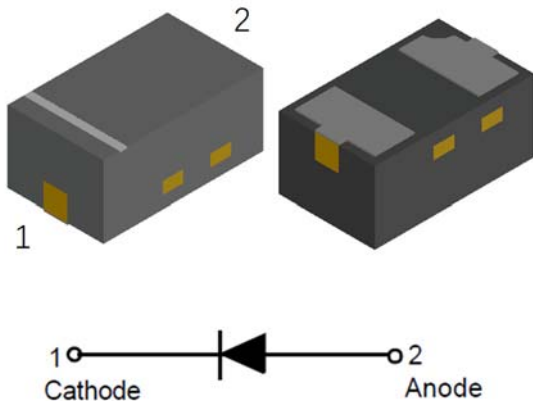


BAT54L2

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 ($T_a=25^{\circ}\text{C}$ 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	I_{FRM}	mA	300
Non-repetitive surge peak forward current @ $t=8.3\text{ms}$ half-sine wave	I_{FSM}	mA	600
Power dissipation	P_D	mW	160
Junction temperature	T_J	$^{\circ}\text{C}$	-55 to +125
Storage temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +125

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■ Electrical Characteristics (T_a=25°C 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	R _{θJ-A} (¹)	°C/W	625

■ Ordering Information

Preferred 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

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■ Characteristics

Fig. 1 - Forward Characteristics

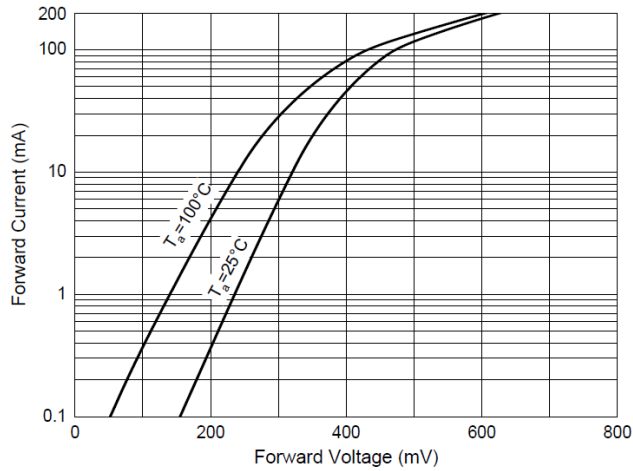


Fig. 2 - Reverse Characteristics

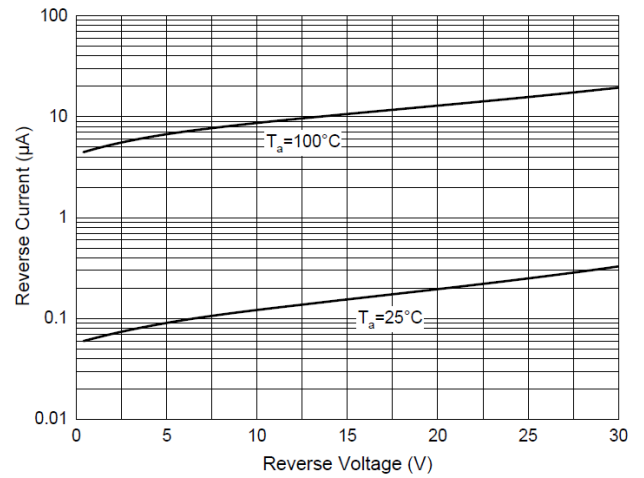


Fig. 3 - Capacitance Characteristics

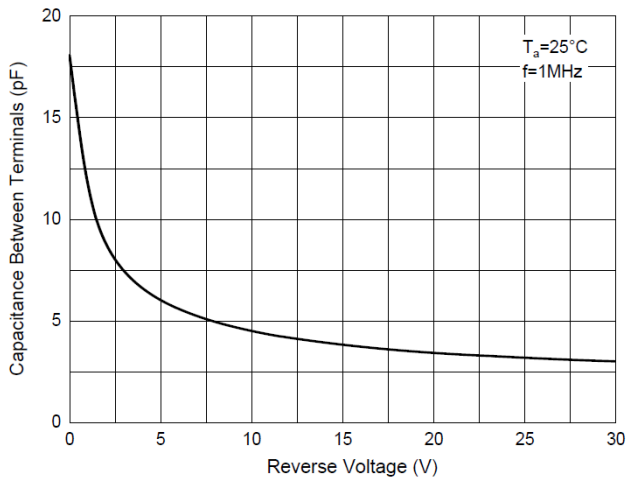
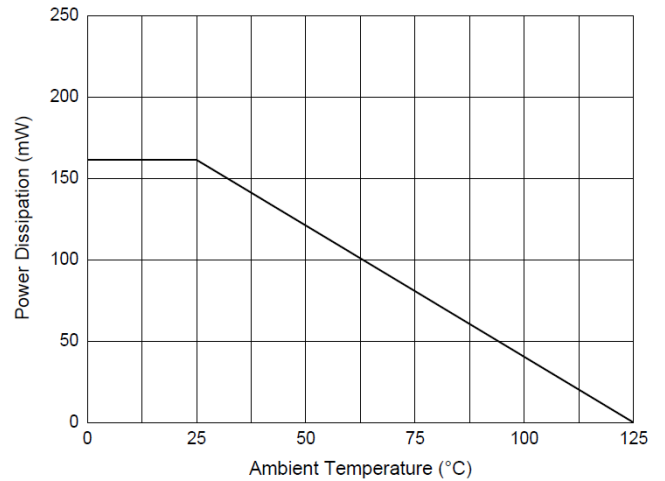
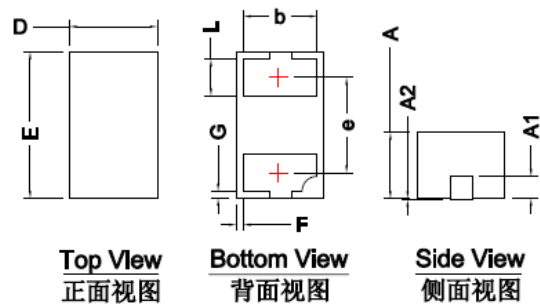


Fig. 4 - Power Derating Curve



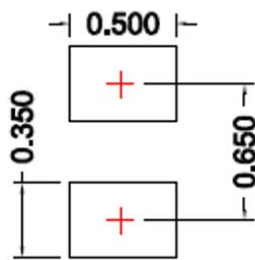
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■ Outline Dimensions



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



BAT54L2

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