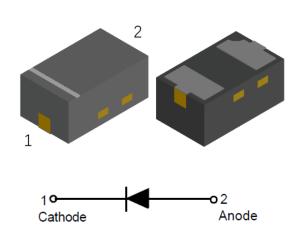






Small Signal Schottky Diode



Features

Moisture sensitivity level 3Reverse voltage: 100V

Average forward current: 200mA

Application

High frequency and low voltage rectifier

Mechanical data

• Package: DFN1006-2L

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

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

Parameter	Symbol	Unit	Value
Device marking code			41
Repetitive peak reverse voltage	V_{RRM}	V	100
Forward current	I _F	mA	200
Non-repetitive surge peak forward current @ t=10ms half-sine wave	I _{FSM}	Α	1
Power dissipation	P_{D}	mW	150
Junction temperature	TJ	°C	-65 to +150
Storage temperature	T_{STG}	℃	-65 to +150



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

Parameter	Symbol	Unit	Conditions	Min	Тур	Max
Reverse voltage	V_R	٧	I _R =100uA	100		
Forward voltage	V_{F1}	V	I _F =1mA			0.45
Forward voltage	V_{F2}	V	I _F =200mA			1
Reverse voltage leakage current	I _R	uA	V _R =50V			0.1
Capacitance	Cj	pF	V _R =1V,f=1MHz			10
Reverse recovery time	Trr	ns	$I_F=I_R=10mA$, $Irr=1mA$, $R_L=100\Omega$			5

■ Thermal Characteristics

Parameter	Symbol	Unit	Value
Thermal resistance, junction-to-ambient	RθJ-A ⁽¹⁾	°C/W	667
Thermal resistance, junction-to-case	RθJ-C ⁽¹⁾	°C/W	533

Note:

(1) Thermal resistance from junction to ambient and from junction to case mounted on P.C.B. with 17mm*10mm copper pad areas







■Characteristics

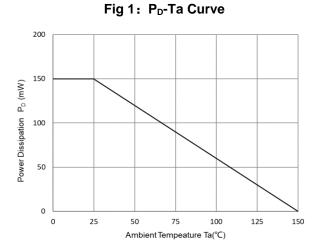


Fig 2: Capacitance Capability

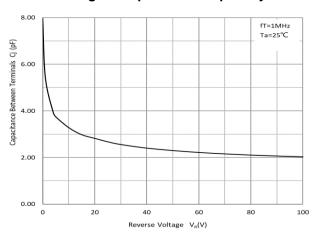


Fig 3: Typical Forward Characteristics

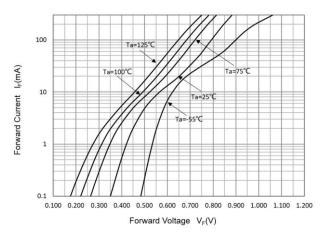
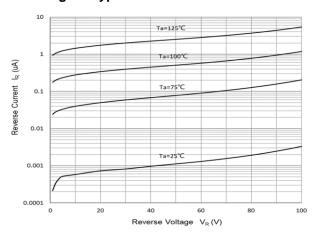


Fig 4: Typical Reverse Characteristics





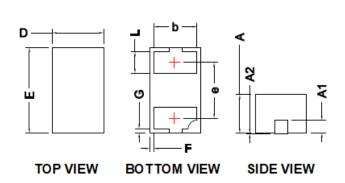




■Ordering Information

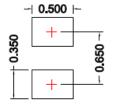
Preferred P/N	Packing code	Unit weight(mg)	Minimum package(pcs)	Inner box quantity(pcs)	Outer carton quantity(pcs)	Delivery mode	
BAT41L2	F1	Approximate 0.9	10000	100000	400000	Tape & Reel	

■ Outline Dimensions



SYMBOL	MILLIMETER				
	MIN	NOM	MAX		
D	D 0.50		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		
е	0.65 BSC				

■ Suggested Pad Layout



UNIT: mm



BAT41L2



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