BAS70F

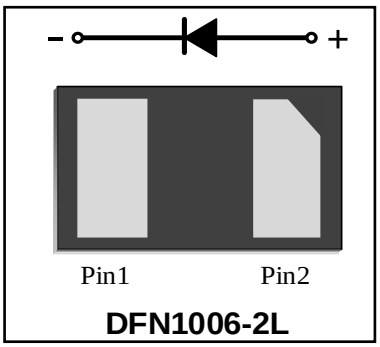
Schottky Barrier Diode

Features

- Low Forward Voltage
- High Reliability

Applications

- Low Current Rectification
- Inverse Polarity Protection
- Low Power Consumption Applications



DFN1006-2L

Absolute Maximum Rating

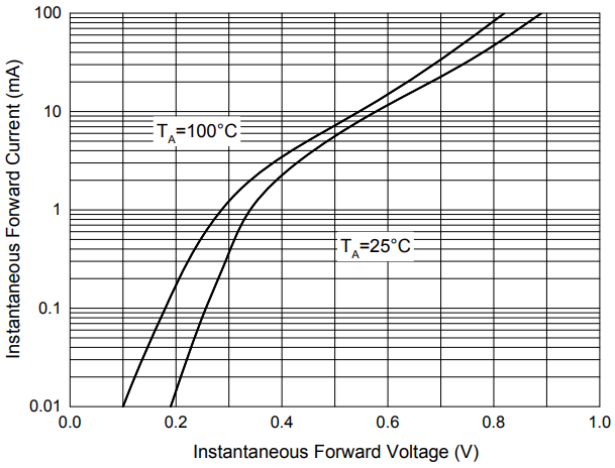
Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	70	V
Forward Continuous Current	I_F	70	mA
Power Dissipation	P_D	200	mW
Peak Forward Surge Current(t=1s,NON-Repetitive)	I_{FSM}	0.1	A
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{stg}	-55 to 150	°C

Electrical Characteristics (T_{amb}=25°C unless otherwise noted)

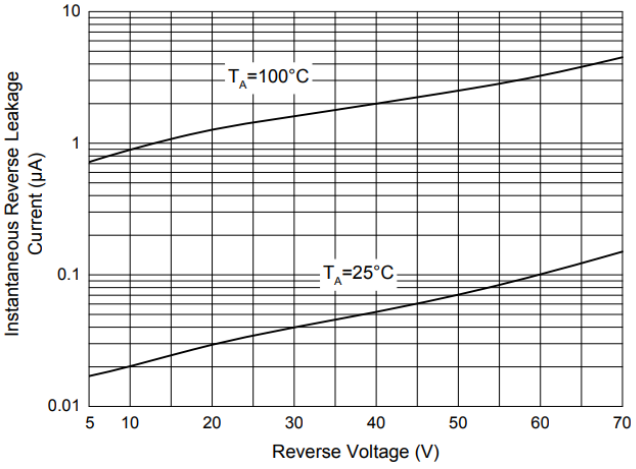
Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_{BR}	I_R = 10μA	70	-	-	V
Reverse Voltage Leakage Current	I_R	V_R = 50V	-	-	100	nA
Forward Voltage	V_F	I_F = 1mA	-	-	0.41	V
		I_F = 15mA	-	-	1	
Diode Capacitance	C_D	V_R= 0, f= 1MHz	-	-	2	pF
Reverse Recovery Time	T_{rr}	I_F=I_R=10mA,I_{rr}=1mA	-	-	5	ns

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Typical Characteristics



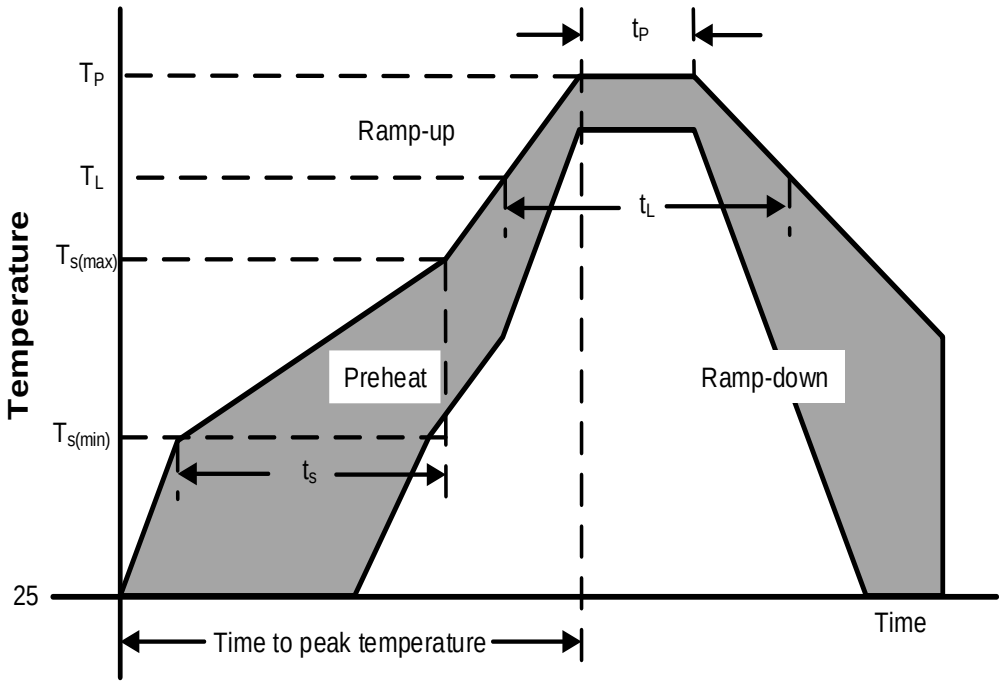
Typical Instantaneous Forward Characteristics



Typical Reverse Leakage Characteristics

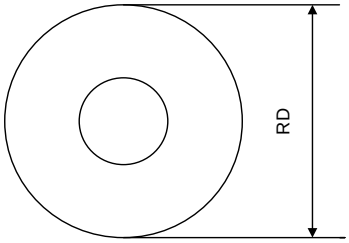
Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260+0/-5 °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		280°C

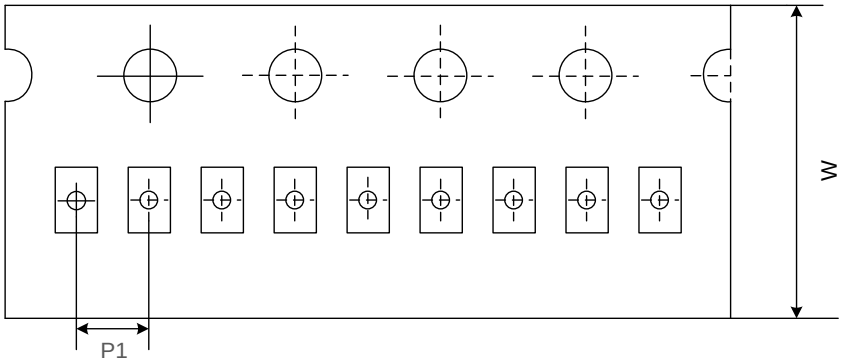


Tape And Reel Information

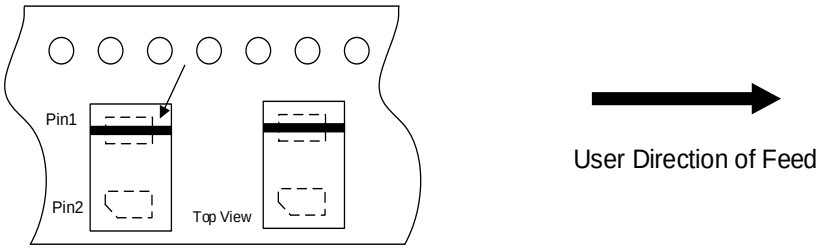
Reel Dimensions



Tape Dimensions



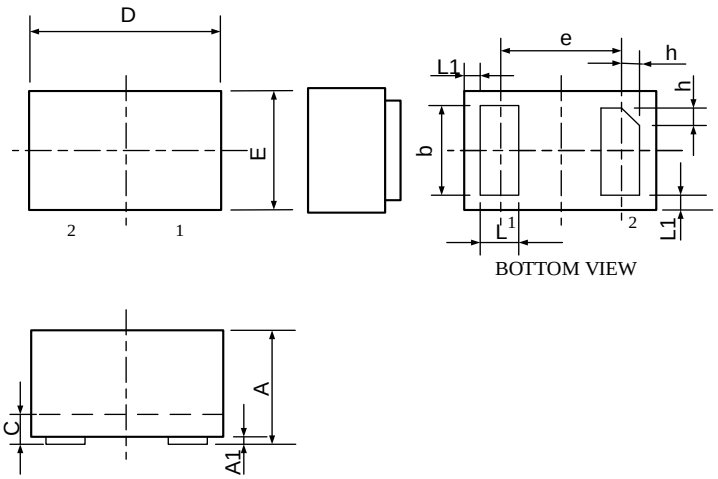
Quadrant Assignments For PIN1 Orientation In Tape

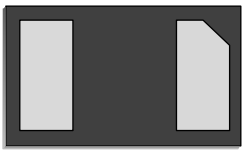


RD	Reel Dimensions	7 inch
W	Overall width of the carrier tape	8 mm
P1	Pitch between successive cavity centers	2mm

Outline Drawing –DFN1006-2L

PACKAGE OUTLINE

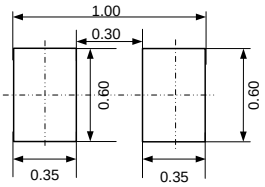




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SYMBOL	MILLIMETERS		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

Land Pattern



Marking Codes

Part Number	BAS70F
Marking Code	K74

Package Information

Qty：10k/Reel

CONTACT INFORMATION

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The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.