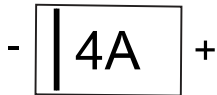


**DFN1006-2L Plastic-Encapsulate Diodes****B1040A1** SCHOTTKY BARRIER DIODE**FEATURES**

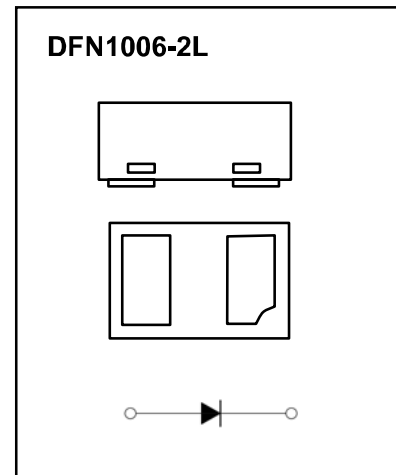
- Low Forward Voltage Drop
- Very Small SMD Package

APPLICATIONS

- Low Voltage Rectification
- High Efficiency DC/DC Conversion
- Switch Mode Power Supply
- Inverse Polarity Protection
- Low Power Consumption Applications

MARKING: 4A

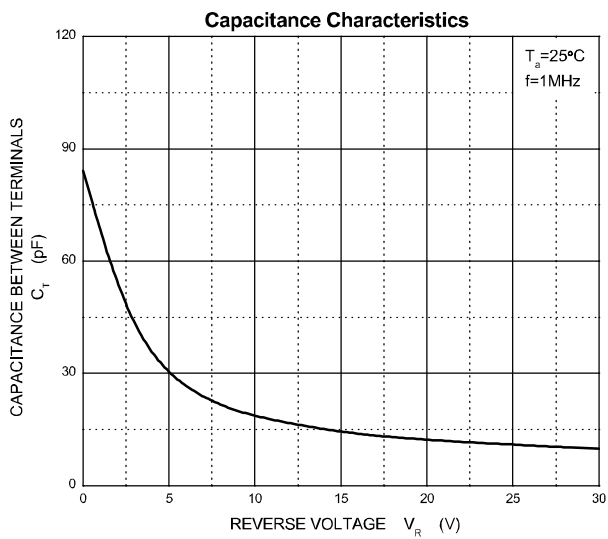
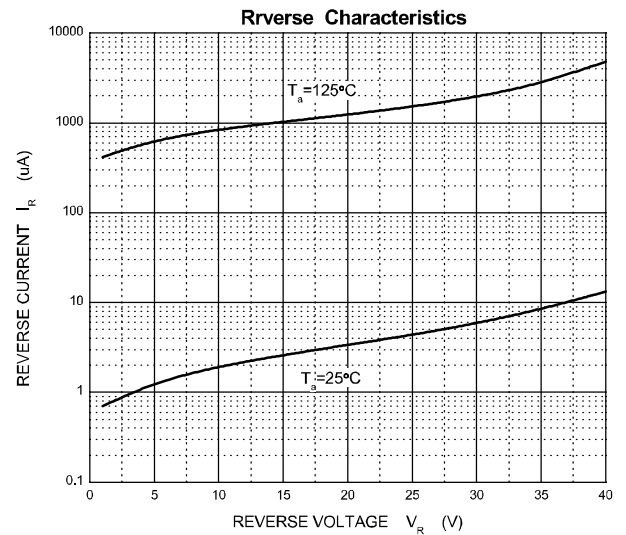
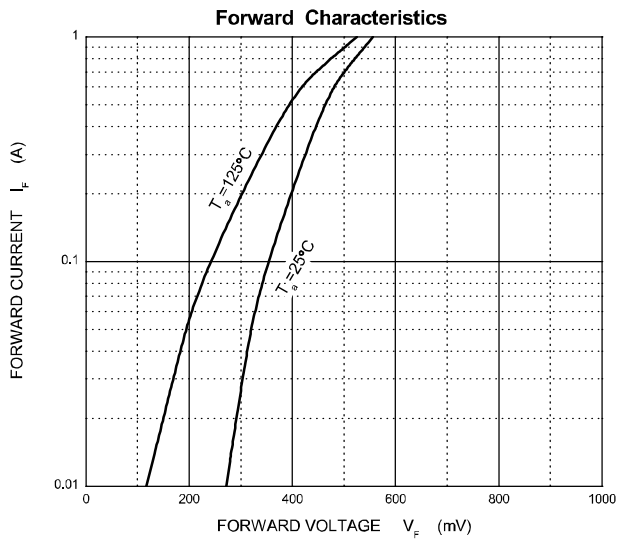
Front side

**MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)**

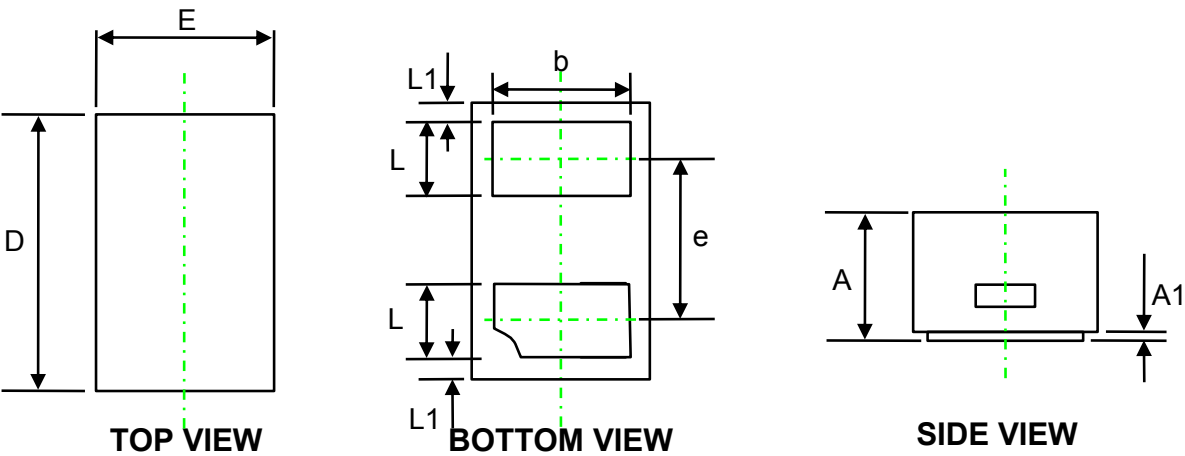
Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	40	V
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_o	Average Rectified Output Current	1	A
I_{FSM}	Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	7	A
P_D	Power Dissipation (Note 1)	500	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	250	$^{\circ}\text{C/W}$
T_j	Operating Junction Temperature Range	-40~+125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

Note: 1. Device mounted on a 1 in.² ceramic PCB which spread 2 ounces of copper.**ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)**

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1\text{mA}$	40			V
Reverse current	I_R	$V_R=40\text{V}$		10	40	μA
Forward voltage	V_F	$I_F=0.1\text{A}$		0.35	0.38	V
		$I_F=0.2\text{A}$		0.37	0.40	
		$I_F=0.5\text{A}$		0.42	0.49	
		$I_F=0.7\text{A}$		0.47	0.55	
		$I_F=1\text{A}$		0.51	0.61	
Total capacitance	C_{tot}	$V_R=10\text{V}, f=1\text{MHz}$		19		pF

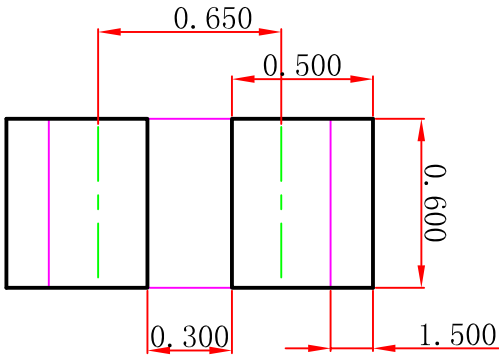


DFN1006-2L Package Outline Dimensions



Symbol	Dimensions In Millimeters (mm)		
	Min.	Typ.	Max.
A	0.44	0.47	0.50
A1	0.00	0.03	0.05
D	0.95	1.00	1.08
E	0.55	0.60	0.68
b	0.40	0.50	0.60
e	-	0.65	-
L	0.20	0.25	0.30
L1	0.05 REF.		

DFN1006-2L Suggested Pad Layout

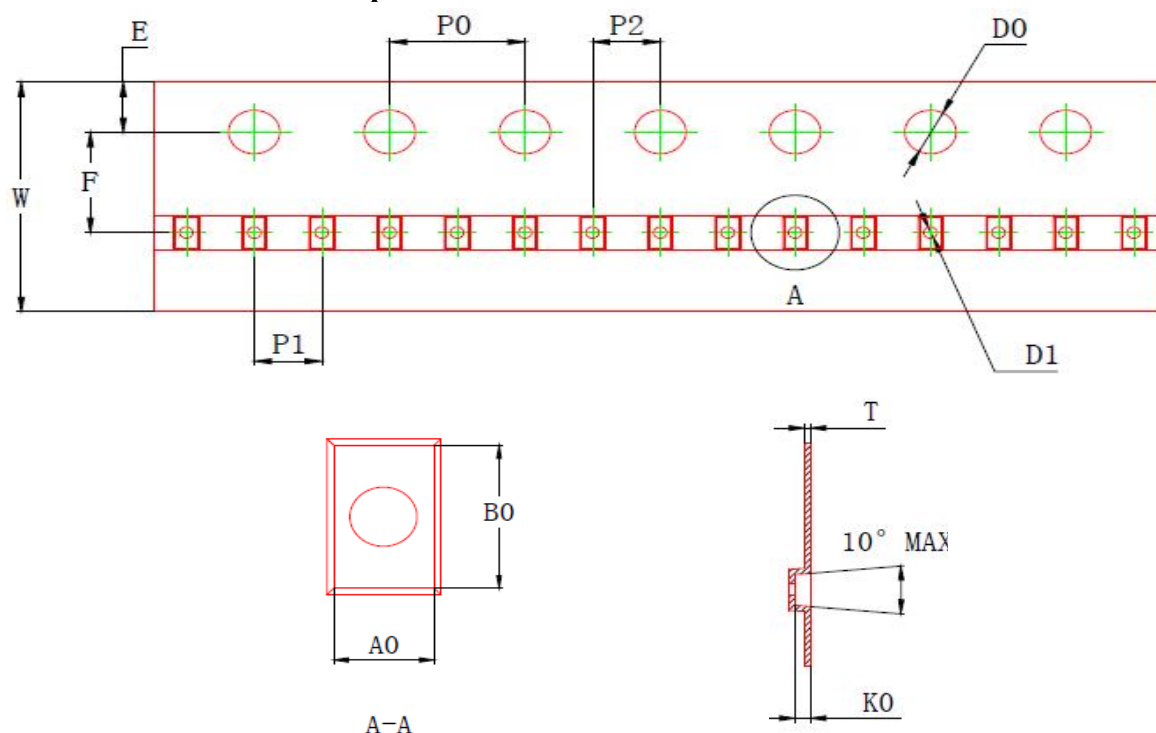


Note:
1.Controlling dimension:in millimeters.
2.General tolerance:± 0.050mm.
3.The pad layout is for reference purposes only.

NOTICE

JCET reserve the right to make modifications,enhancements, improvements, corrections or other changes without further notice to any product herein.JCET does not assume any liability arising out of the application or use of any product described herein.

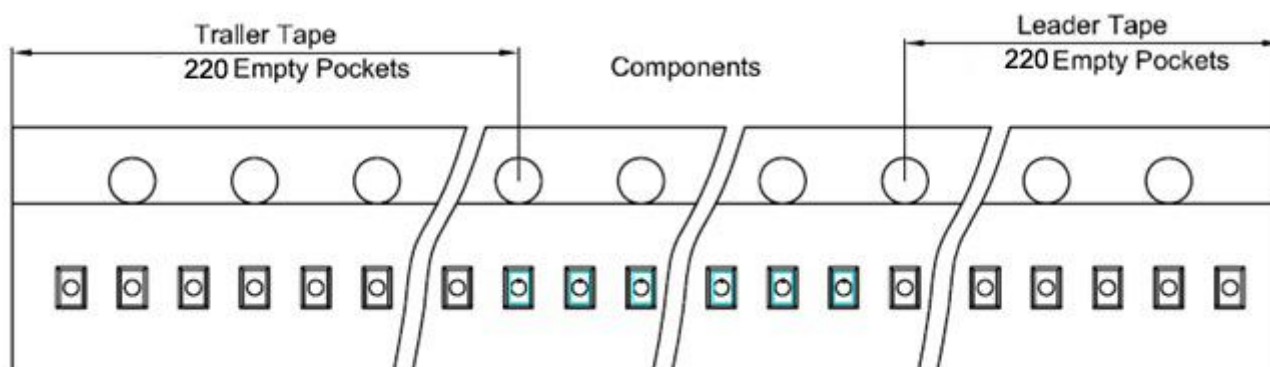
1. DFN1006 Embossed Carrier Tape



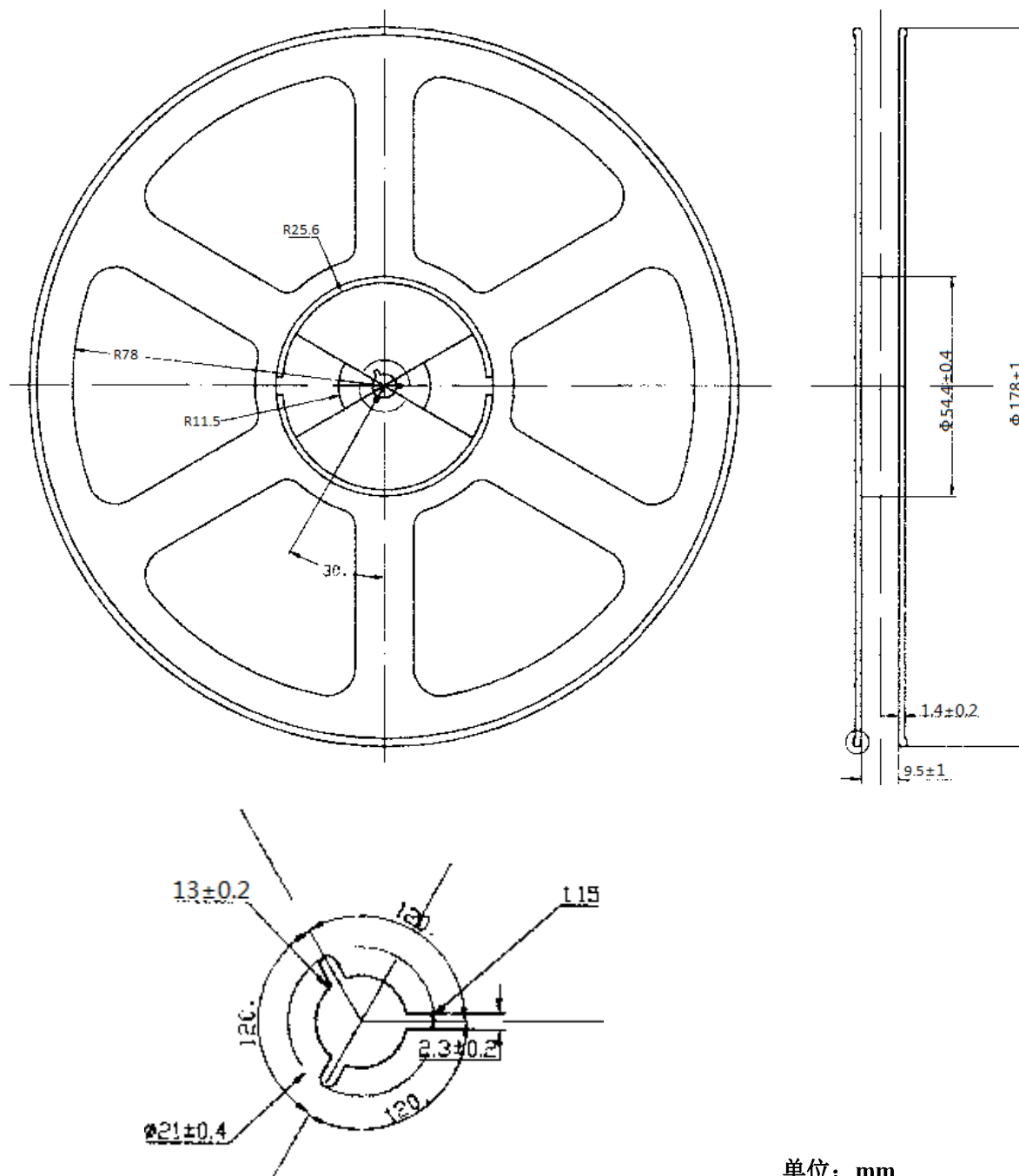
Dimensions are in millimeter

Pkg type	W	P0	P1	P2	A0	B0	K0	D0	D1	F	E	T
DFN1006	8.0	4.0	2.0	2.0	0.71	1.11	0.48	1.55	0.5	3.5	1.75	0.23
Tolerance	+0.3/-0.1	+/-0.1	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.05	+/-0.1	+/-0.02

2. DFN1006 Tape Leader and Trailer



3. DFN1006 Reel Size



Reel Size	Devices Per Reel	Box Size(mm)	Devices Per Box	Carton Size (mm)	Devices Per Carton
(卷轴尺寸)	(单盘器件数量)	内盒尺寸	(内盒器件数量)	(外箱尺寸)	(外盒器件数量)
7 inch	10,000 pcs	18×18×6.5	50,000	40×20×28	400,000