



DFN1006-2L Plastic-Encapsulate Diodes

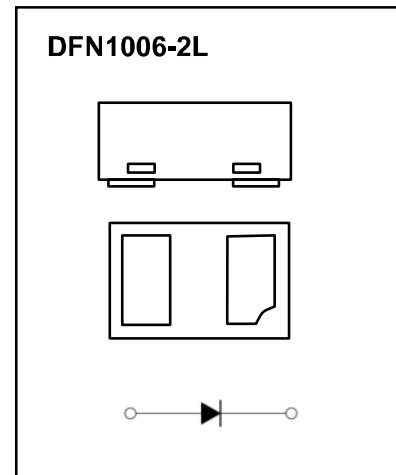
B1040A1 SCHOTTKY BARRIER DIODE

FEATURES

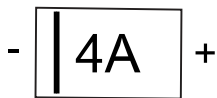
- Low Forward Voltage Drop
- Very Small SMD Package

APPLICATIONS

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



MARKING: 4A



Front side

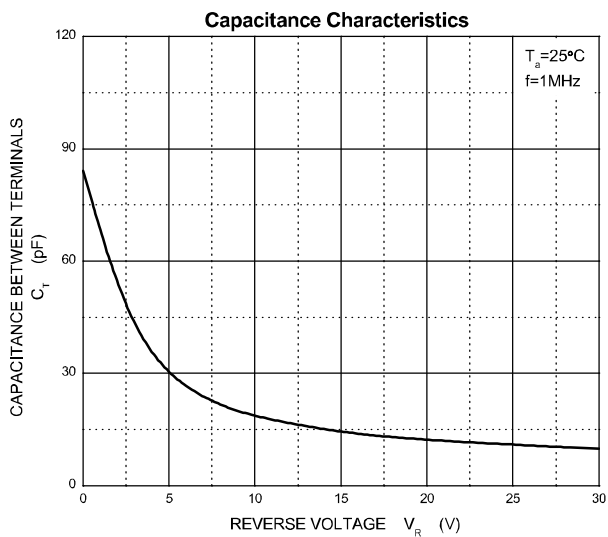
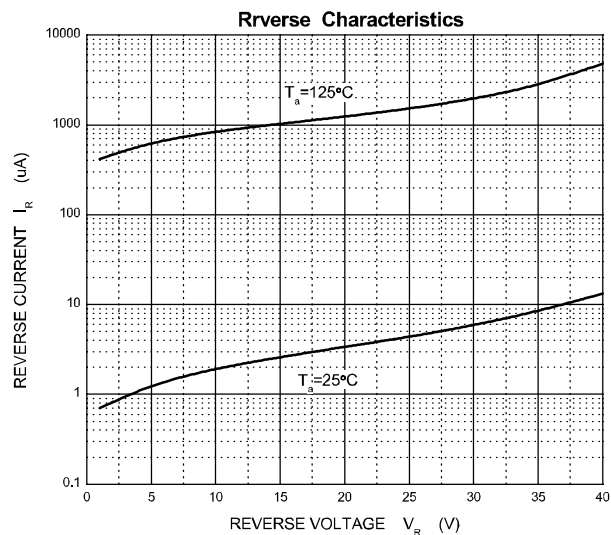
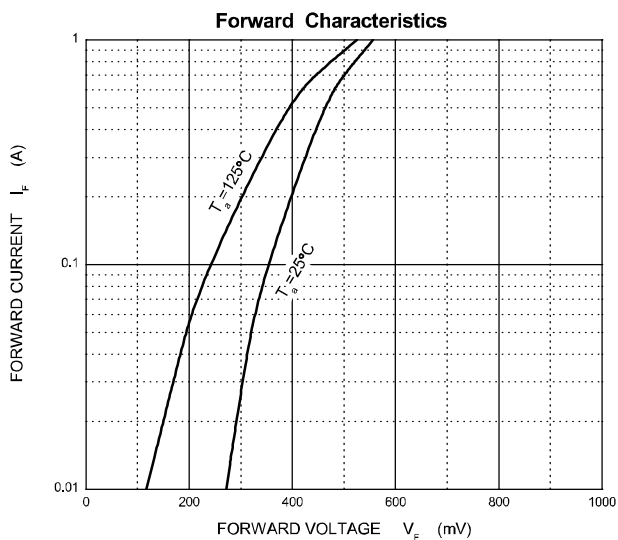
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

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=8.3ms	7	A
P _D	Power Dissipation (Note 1)	500	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	250	°C/W
T _j	Operating Junction Temperature Range	-40~+125	°C
T _{stg}	Storage Temperature Range	-55~+150	°C

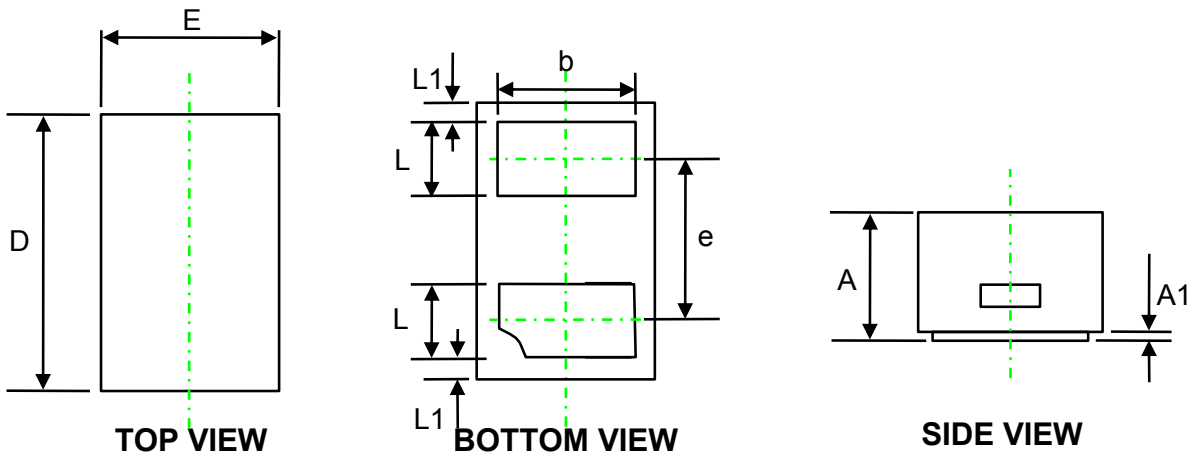
Note: 1. Device mounted on a 1 in.² ceramic PCB which spread 2 ounces of copper.

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R =1mA	40			V
Reverse current	I _R	V _R =40V		10	40	uA
Forward voltage	V _F	I _F =0.1A		0.35	0.38	V
		I _F =0.2A		0.37	0.40	
		I _F =0.5A		0.42	0.49	
		I _F =0.7A		0.47	0.55	
		I _F =1A		0.51	0.61	
Total capacitance	C _{tot}	V _R =10V,f=1MHz		19		pF

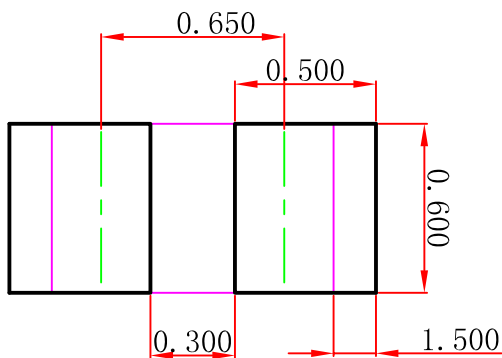


DFN1006-2L Package Outline Dimensions



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

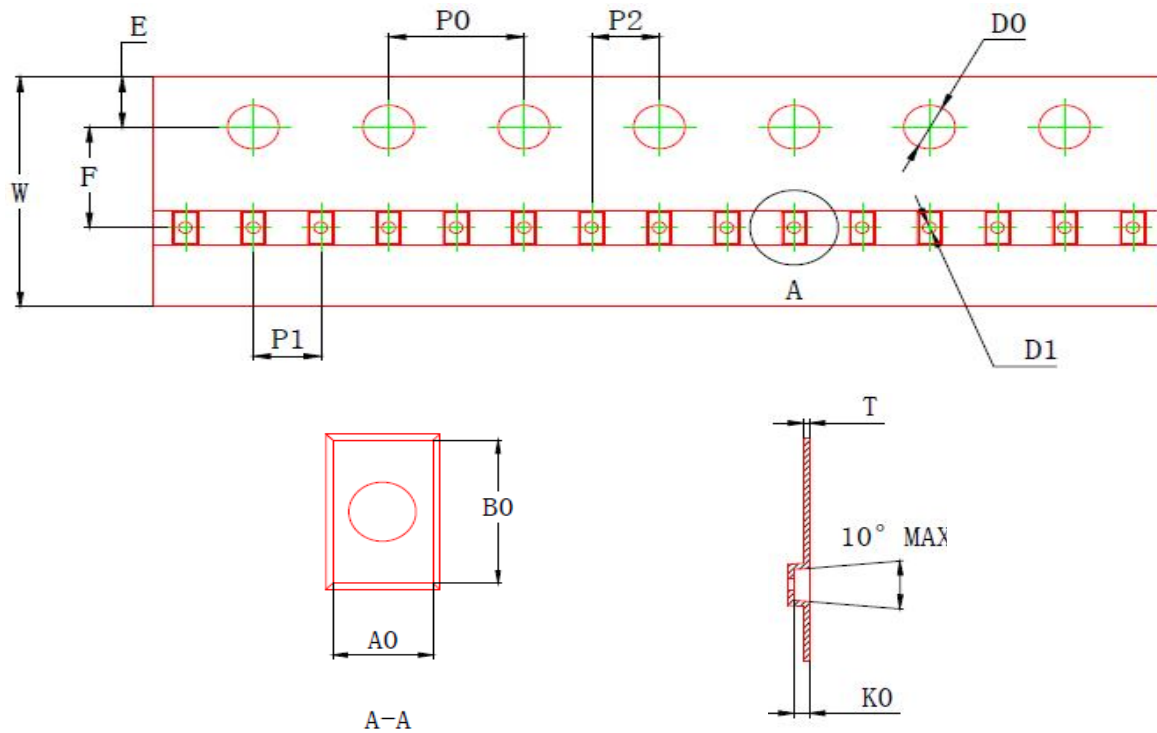


- Note:
1. Controlling dimension: in millimeters.
 2. General tolerance: ± 0.050 mm.
 3. The pad layout is for reference purposes only.

NOTICE

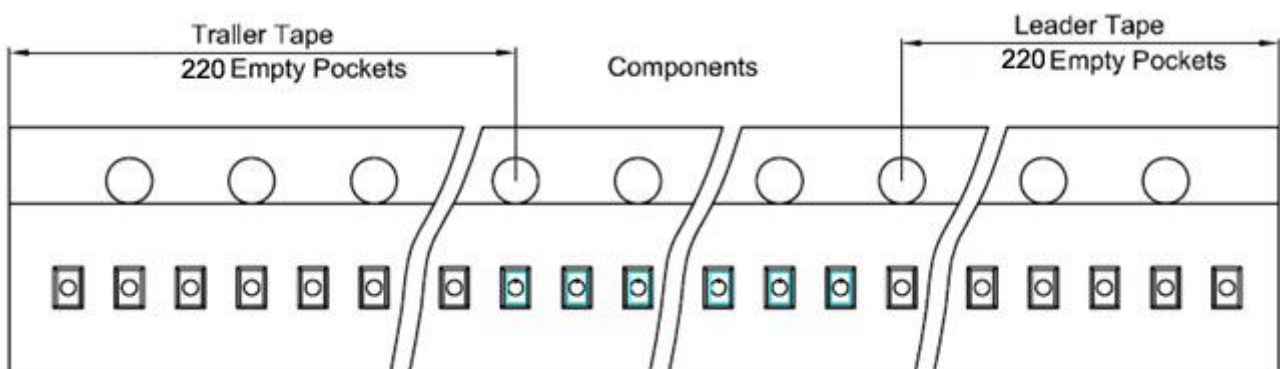
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1. DFN1006 Embossed Carrier Tape



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



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