/ Descriptions

DFN1006-2L Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

/ Features

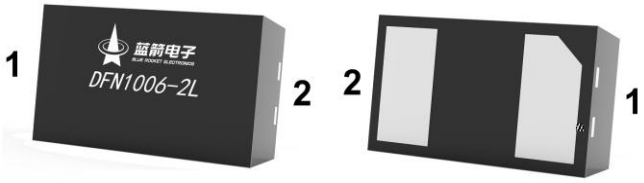
Ultra small package, Response Time is Typically < 1 ns, ESD > 30 kV per Human Body -Q101 Standards for High Reliability, HF Product.

/ Applications

Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit

/ Pinning



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Peak Pulse Power(t_p = 8)	P_{PK}	80	W
Peak Pulse Current(t_p)	I_{PP}	5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	30	KV
ESD according to IEC61000-4-2 contact discharge		30	
Junction temperature	T_J	125	
Storage Temperature	T_{STG}	-55~+150	

/ Electrical Characteristics(Ta=25)

Definitions of electrical characteristics

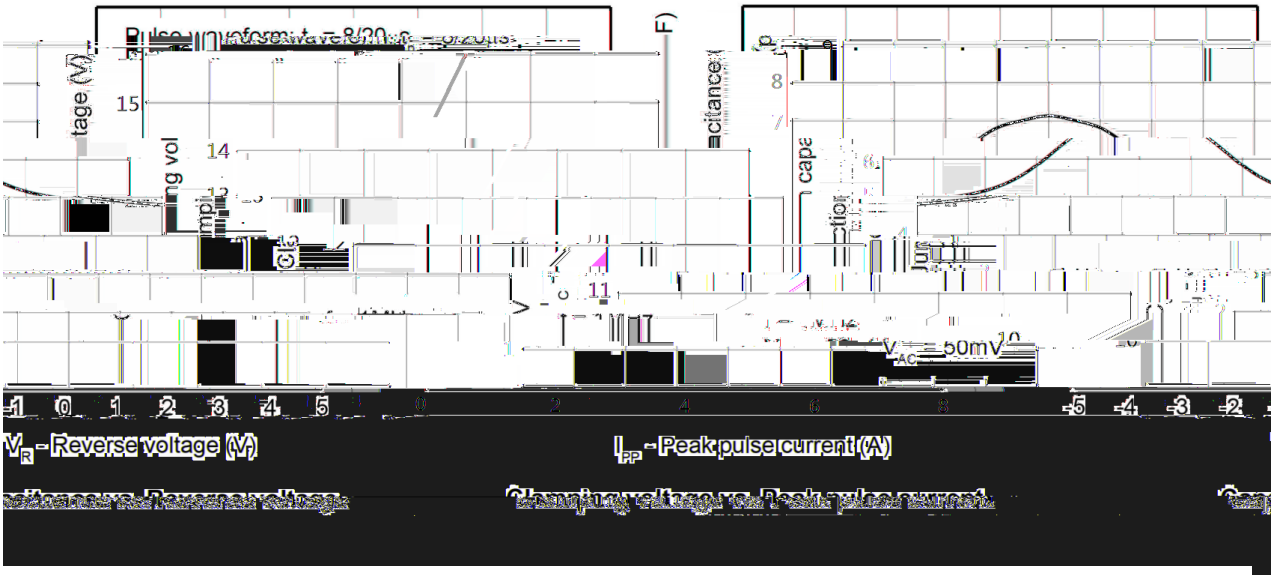
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				7.0	V
Reverse leakage current	I_R	V_{RWM} = 7.0V			500	nA
Reverse breakdown voltage [1)]	V_{BR}	I_T=1mA	7.2		9	V
Clamping voltage [2)]	V_{CL}	I_{PP} = 1A t_p			10	V
		I_{PP} = 5A t_p			16	V
Junction Capacitance	C_J	V_R = 0V f = 1MHz		7.8		pF

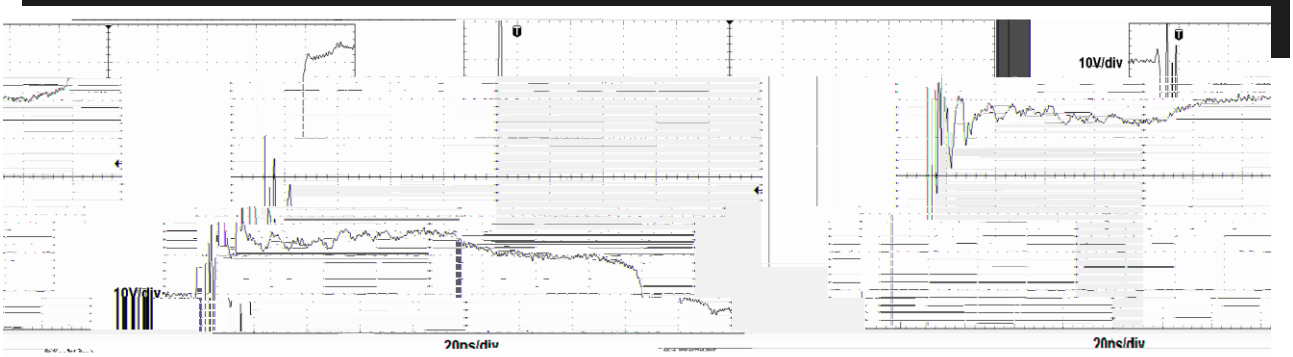
Notes:

1) V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 .

2) Non-repetitive current pulse, according to IEC61000-4-5.

/ Electrical Characteristic Curve(Ta=25)





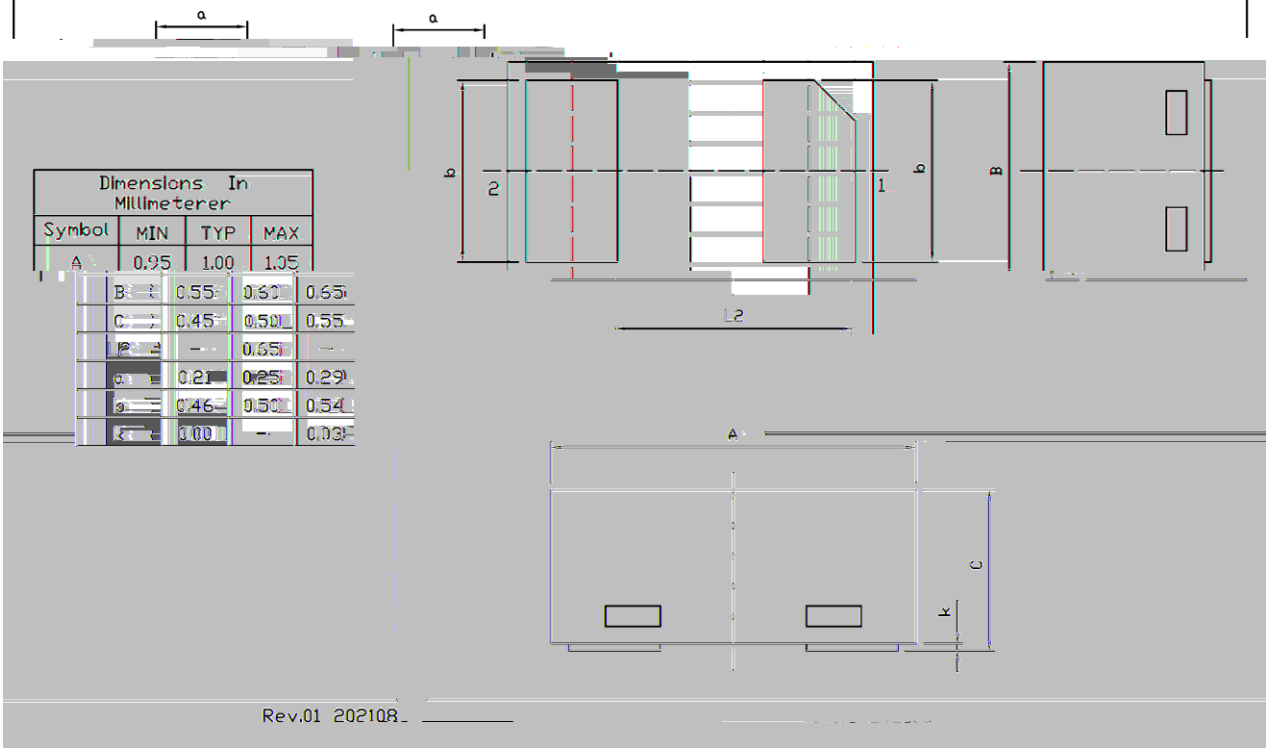
SD clamping
lischarge per IEC61000-4-2)

ESD clamping
(+8kV contact discharge per IEC61000-4-2)

ES
(-8kV contact d

/ Package Dimensions

DFN1006-2L Unit:mm



Dimensions In Millimeterer			
Symbol	MIN	TYP	MAX
A	0.95	1.00	1.05
B	0.55	0.60	0.65
C	0.45	0.50	0.55
L2	–	0.65	–
a	0.21	0.25	0.29
b	0.46	0.50	0.54
K	0.00	–	0.03

/ Marking Instructions

Q

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Note

Q	Automobile halogen-free product Code
7A	Product Type Code

( ) /

Note:

1 150 200 60 120sec; 1.Preheating:150~200 , Time:60~120sec.

2 255 5 5 0.5sec; 2.Peak Temp.:255 5 , Duration:5 0.5sec.

3 2 10 /sec 3. Cooling Speed: 2~10 /sec.