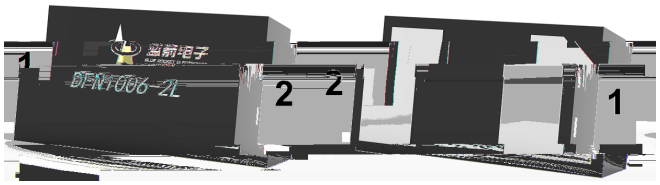
DFN1006-2L ESD
DFN1006-2L Plastic Package ESD Protection Diode.

1ns 30KV IEC61000-4-2 4 ESD

Ultra small package, Response Time is Typically < 1 ns, ESD > 30 kV per Human Body Model,IEC61000−4−2 Level 4 ESD Protection,HF Product.

MP3
Suitable for cellular phones audio,MP3 players, Digital cameras, Portable devices, mobile telephone and other users.



See Marking Instructions.

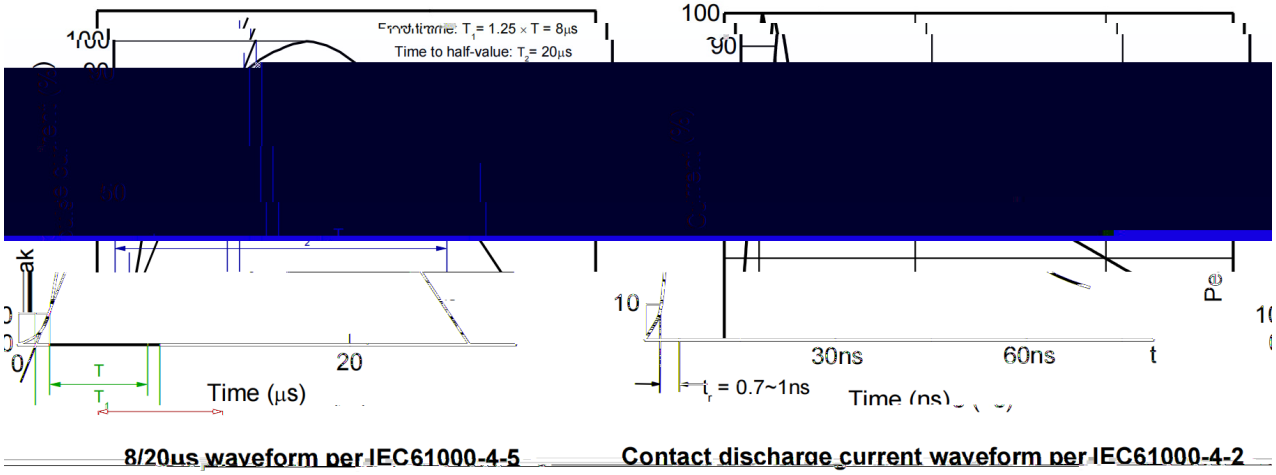
Parameter	Symbol	Rating	Unit
Peak pulse power (t_p = 8/20μs)	P_K	69	W
Peak pulse current (t_p = 8/20μs)	I_{PP}	5.5	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	150	
Storage temperature	T_{STG}	-55~+150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				3.3	V
Reverse leakage current	I_R	V_{RWM} = ± 3.3V			± 0.1	uA
Reverse breakdown voltage[1)]	V_{BR}	I_T = 1mA	5.0		6.8	V
Clamping voltage [2)]	V_C	I_{PP} = 1A t_p = 8/20μs			9.8	V
		I_{PP} = 5.5A t_p = 8/20μs			12.5	V
Junction capacitance	C_J	V_R = 0V f = 1MHz			15	pF

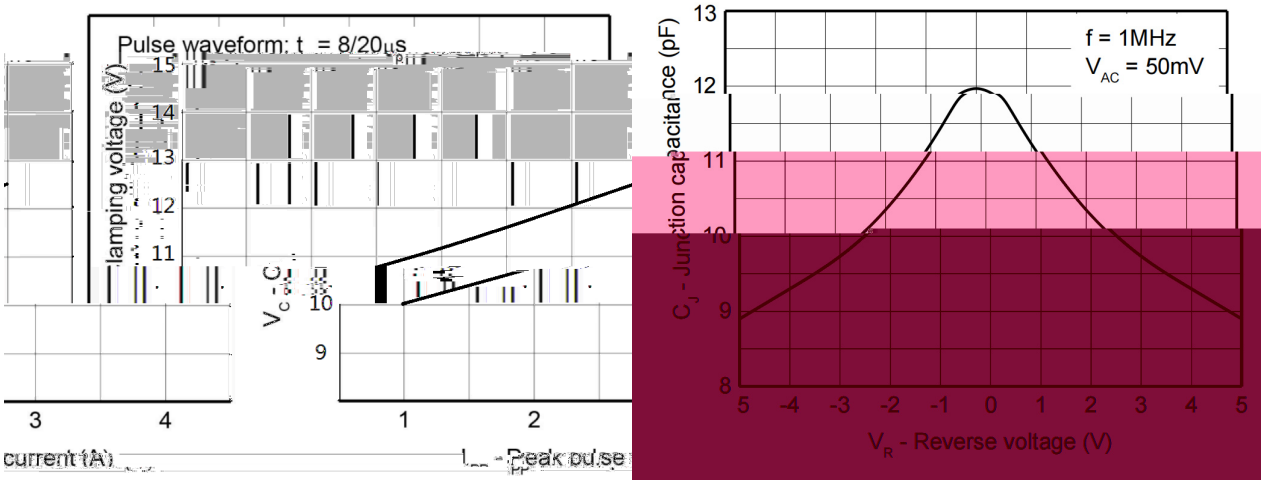
Notes:

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

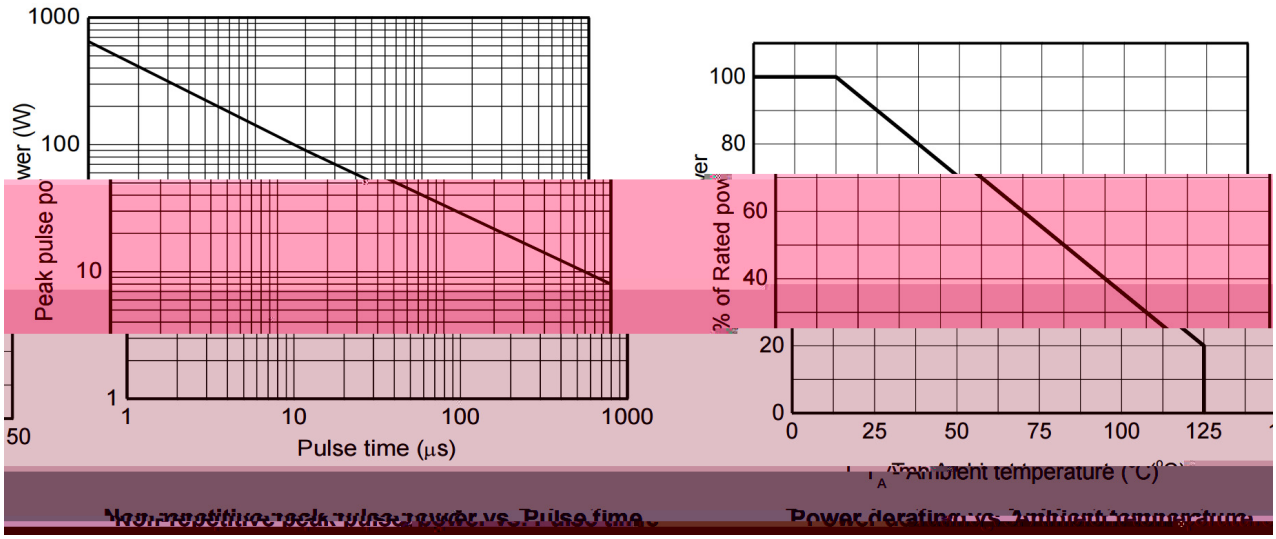
2) Non-repetitive current pulse, according to IEC61000-4-5.



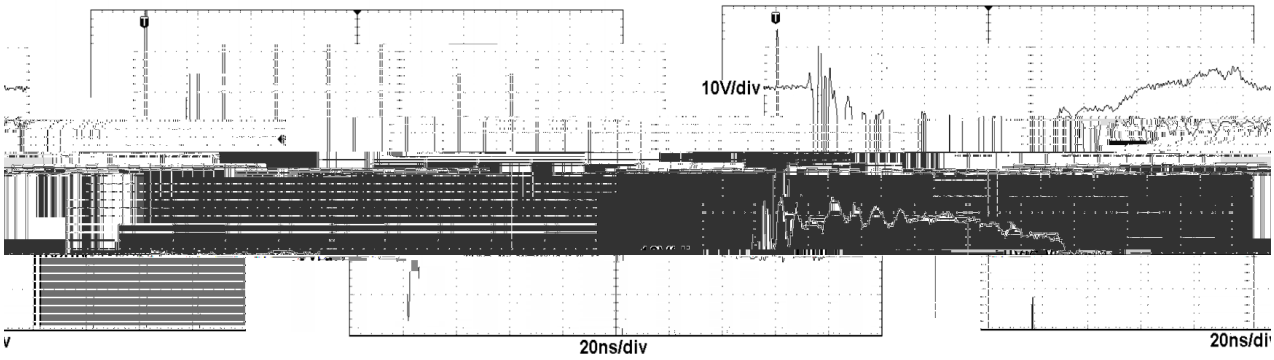
8/20μs waveform per IEC61000-4-5 Contact discharge current waveform per IEC61000-4-2



. Peak pulse current Clamping voltage vs Capacitance vs. Reverse voltage



Non-repetitive peak pulse power vs. Pulse time Power derating vs. Ambient temperature



ping **ESD clamping** **ESD clamp**

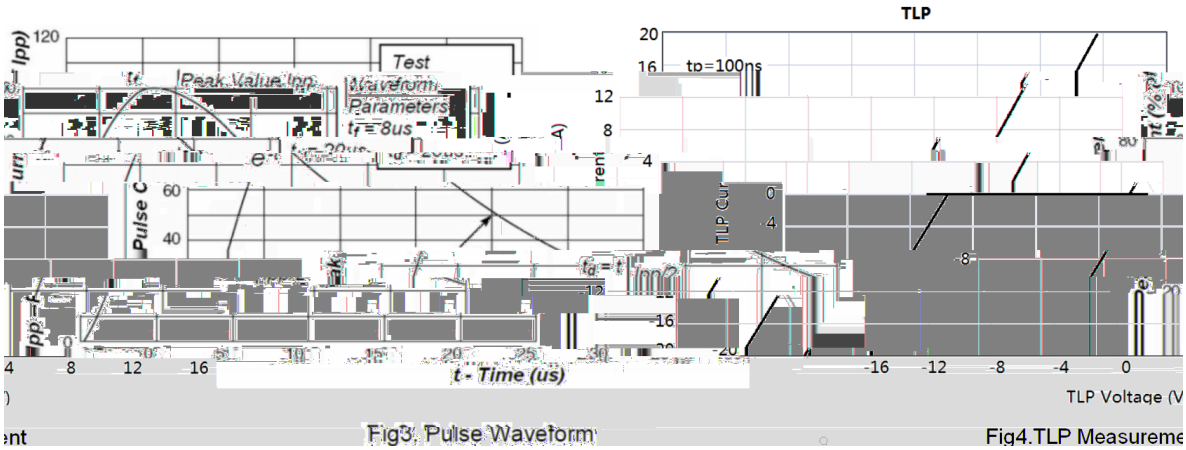
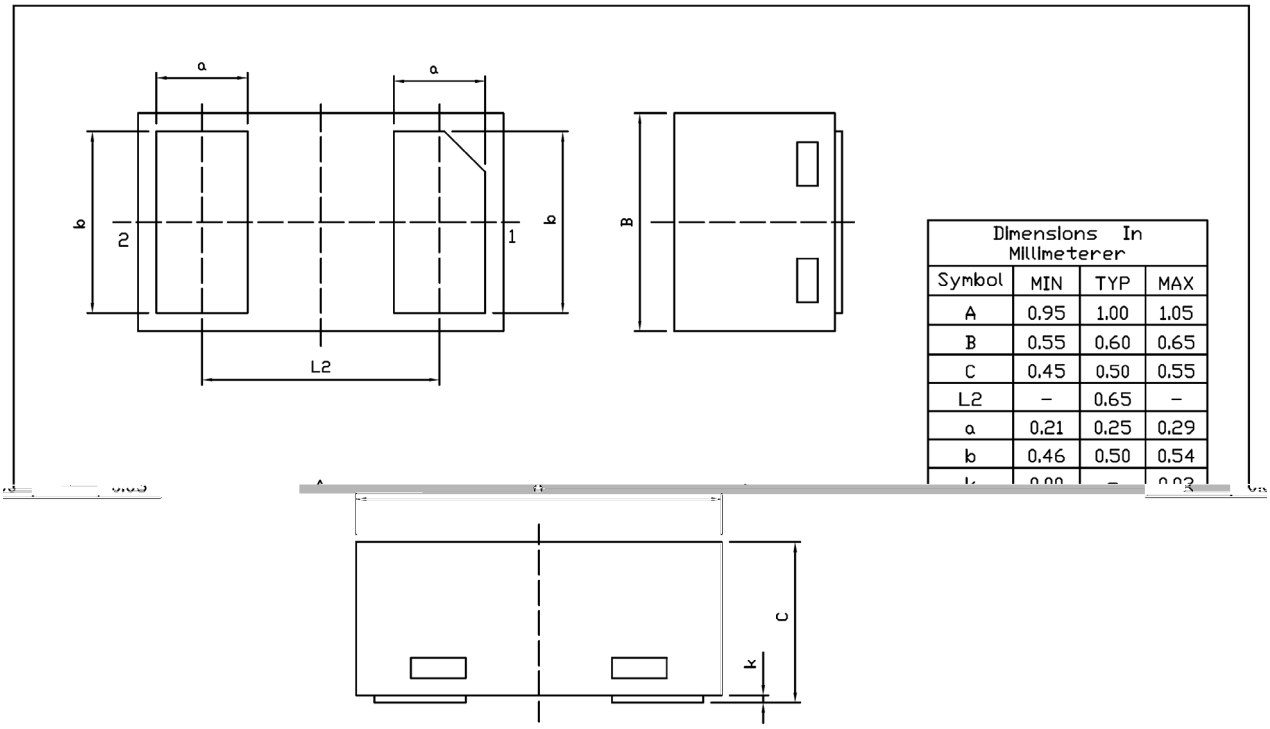


Fig3. Pulse Waveform

Fig4.TLP Measureme

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

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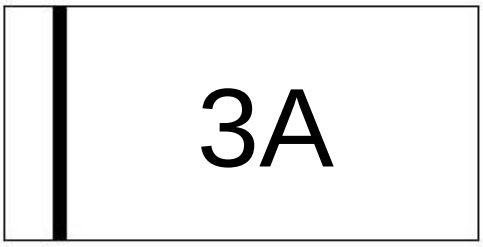
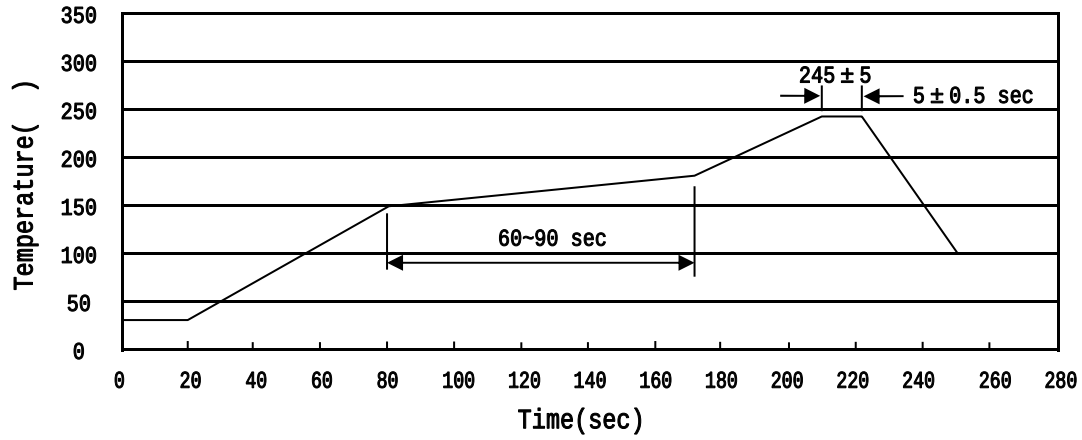


3A

Note

3A	Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)



	Note:
1 150 180 60 90sec;	1.Preheating:150~180 , Time:60~90sec.
2 245±5 5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.
3 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type	Units					Dimension		(unit mm³)
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
DFN1006-2L	10,000	10	100,000	6	600,000	7 ×8	180×120×180	390×385×205