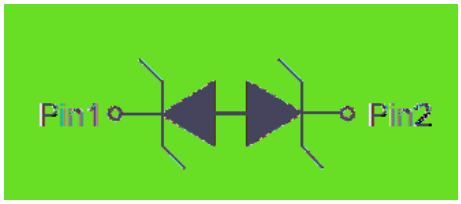
DFN1006-2L ESD

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

- Stand-off voltage: ±12V Max
- Transient protection for each line according to
  - IEC61000-4-2(ESD): ±30kV (contact)
  - IEC61000-4-4 (EFT): 40A (5/50ns)
  - IEC61000-4-5(surge): 6A (8/20μs)
- Ultra-low capacitance: CJ = 5pF typ
- Low leakage current:
- Low clamping voltage: VCL =21.0V typ. @ IPP = 16A (TLP)
- Solid-state silicon technology
- Qualified to AEC-Q101 Standards for High Reliability
- HF Product

- Computers and peripherals
- Audio and video equipment
- Communication systems
- Portable electronics
- Meet the stringent requirements of automotive applications

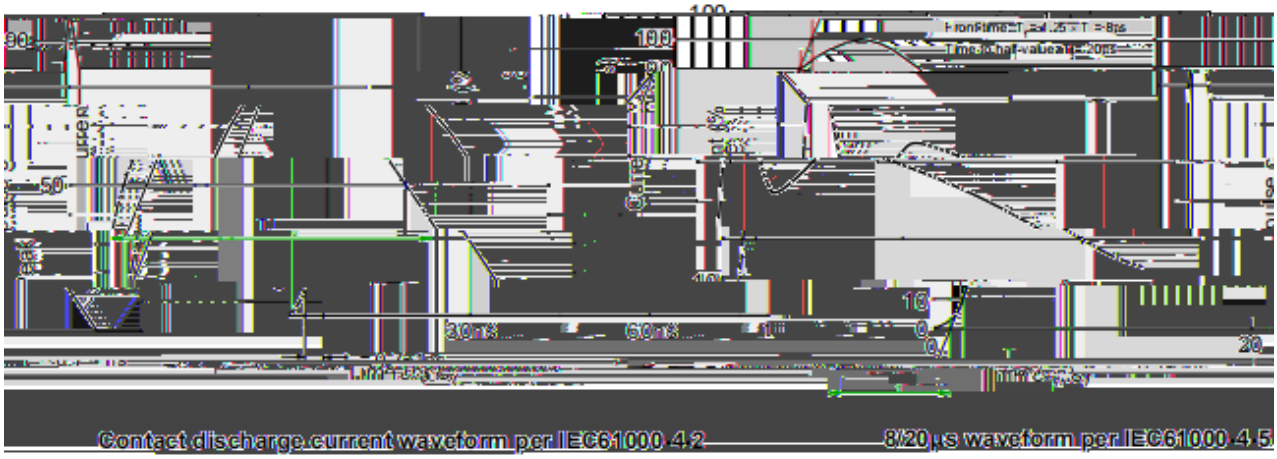


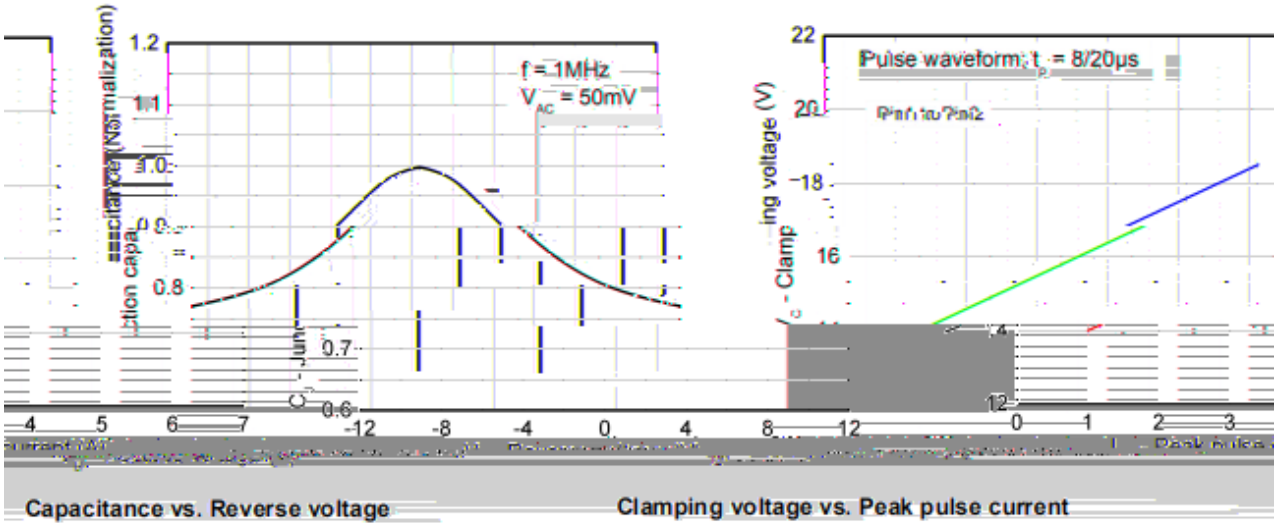


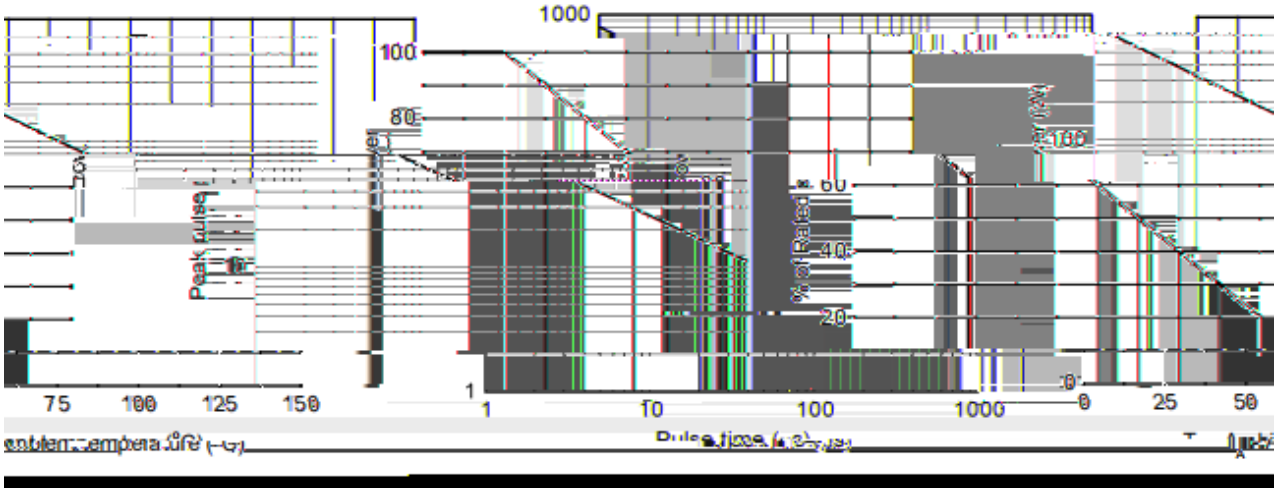
See Marking Instructions.

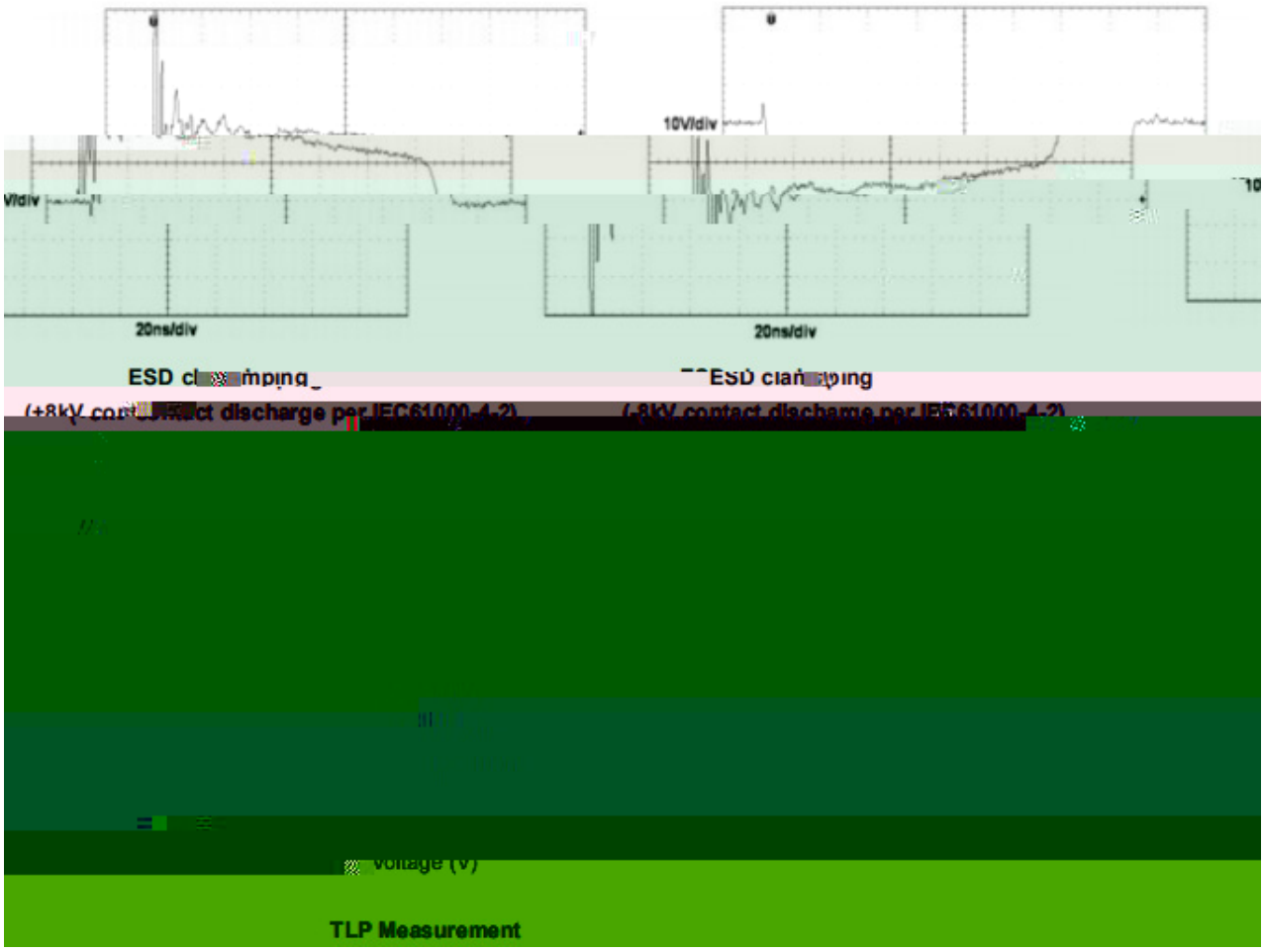
Parameter	Symbol	Rating	Unit
Peak Pulse Power(t_p = 8/20μs)	P_{PK}	120	W
Peak Pulse Current(t_p = 8/20μs)	I_{PP}	6	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	125	
Operating temperature	T_{OP}	-40~85	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}					

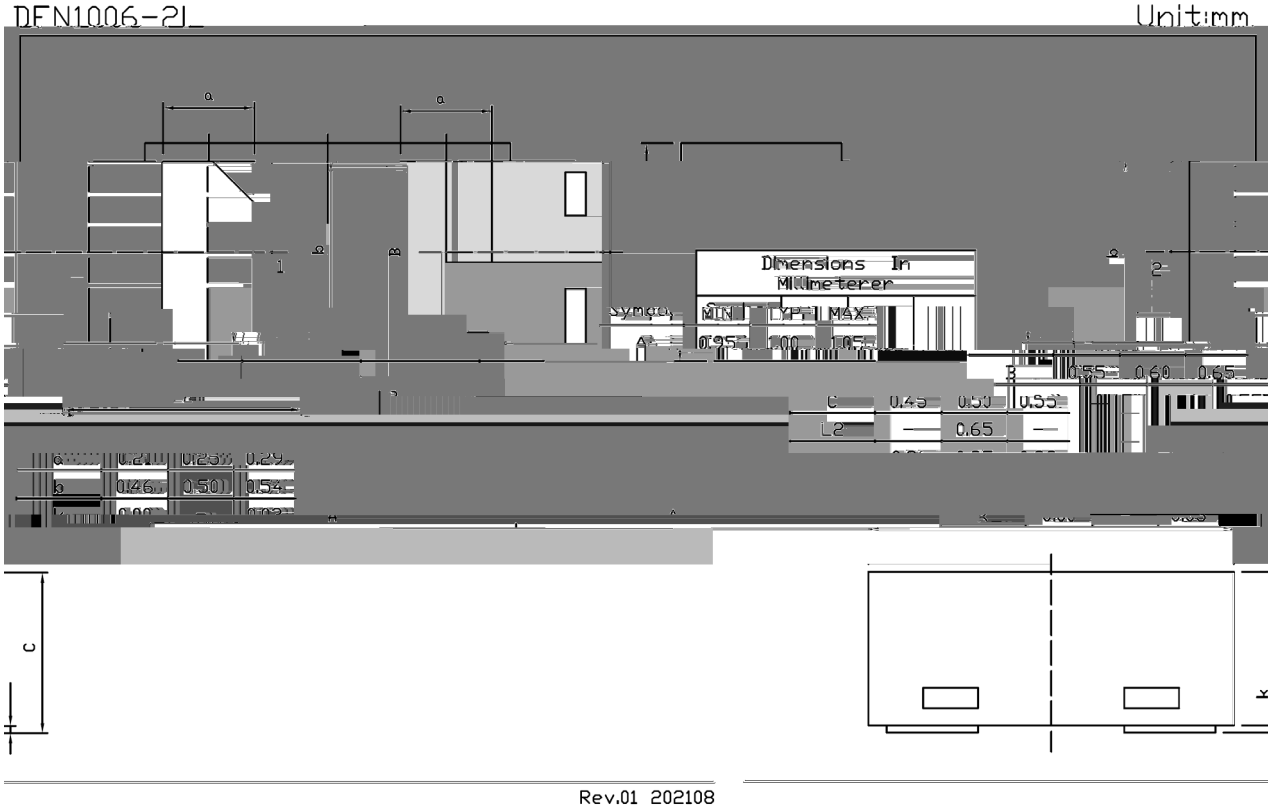

Contact discharge current waveform per IEC61000-4-2
8/20μs waveform per IEC61000-4-5


f = 1MHz
V AC = 50mV
Capacitance vs. Reverse voltage
Pulse waveform: t p = 8/20μs
Clamping voltage vs. Peak pulse current




10V/div
20ns/div
20ns/div
TLP Measurement

DFN1006-2L Unit:mm



Rev.01 202108

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.

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

/ REEL

Package Type Units Dimension (unit mm^3