

/ Descriptions

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

/ Features

Stand-off voltage: $\pm 12\text{V}$ Max

Transient protection for each line according to

IEC61000-4-2(ESD): $\pm 30\text{kV}$ (contact)

IEC61000-4-4 (EFT): 40A (5/50ns)

IEC61000-4-5(surge): 6A (8/20 s)

Ultra-low capacitance: $C_J = 5\text{pF}$ typ

Low leakage current:

Low clamping voltage: $V_{CL} = 21.0\text{V}$ typ. @ $I_{PP} = 16\text{A}$ (TLP)

Solid-state silicon technology

Qualified to AEC-Q101 Standards for High Reliability

HF Product

/ Applications

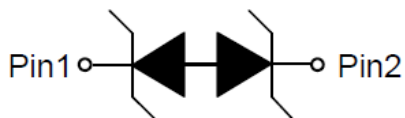
Computers and peripherals

Audio and video equipment

Communication systems

Portable electronics

Meet the stringent requirements of automotive applications

/ Equivalent Circuit**/ Pinning****/ Marking**

See Marking Instructions.

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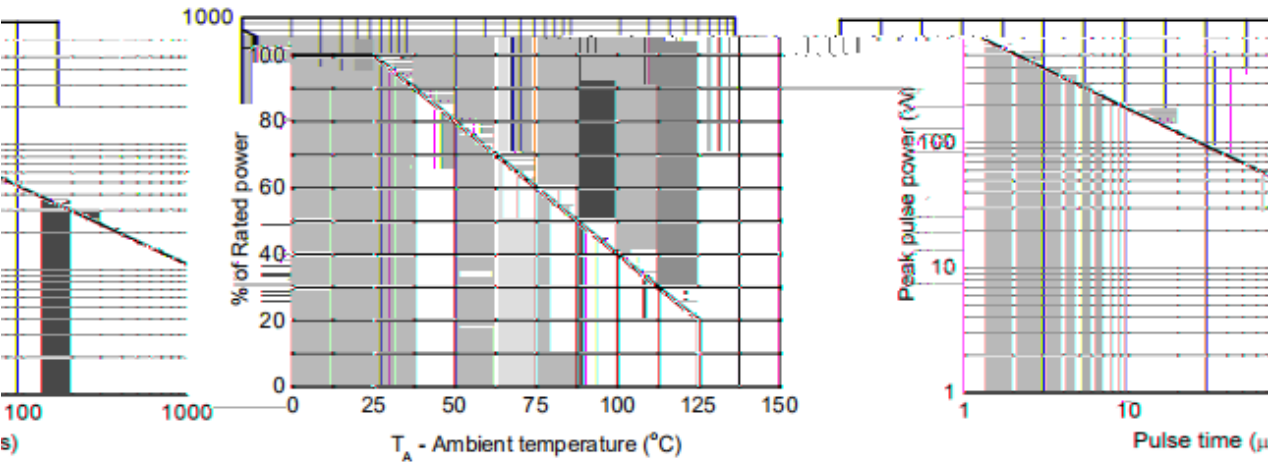
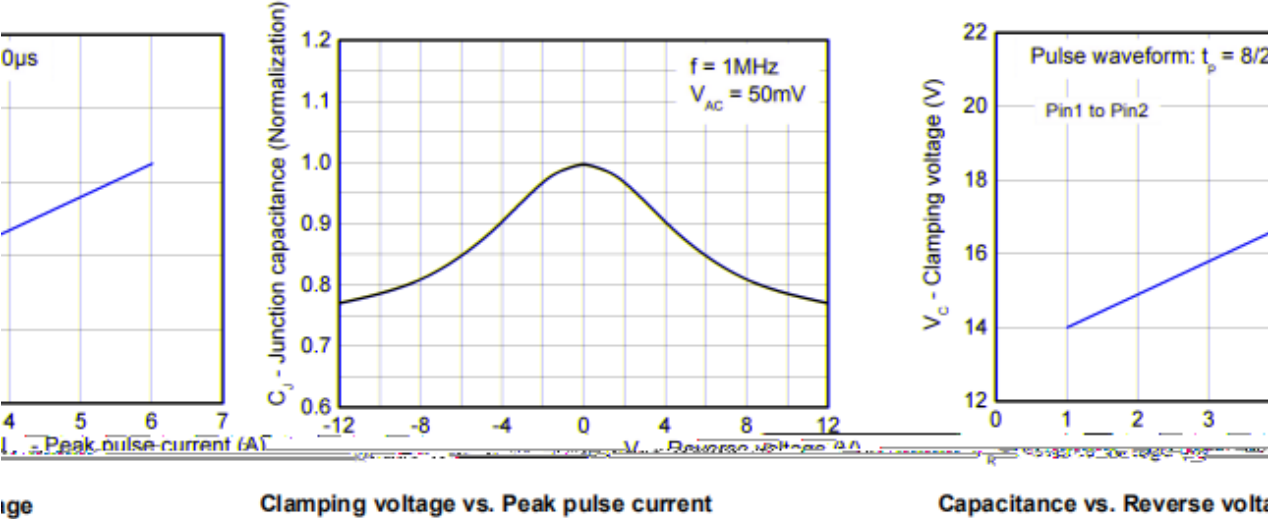
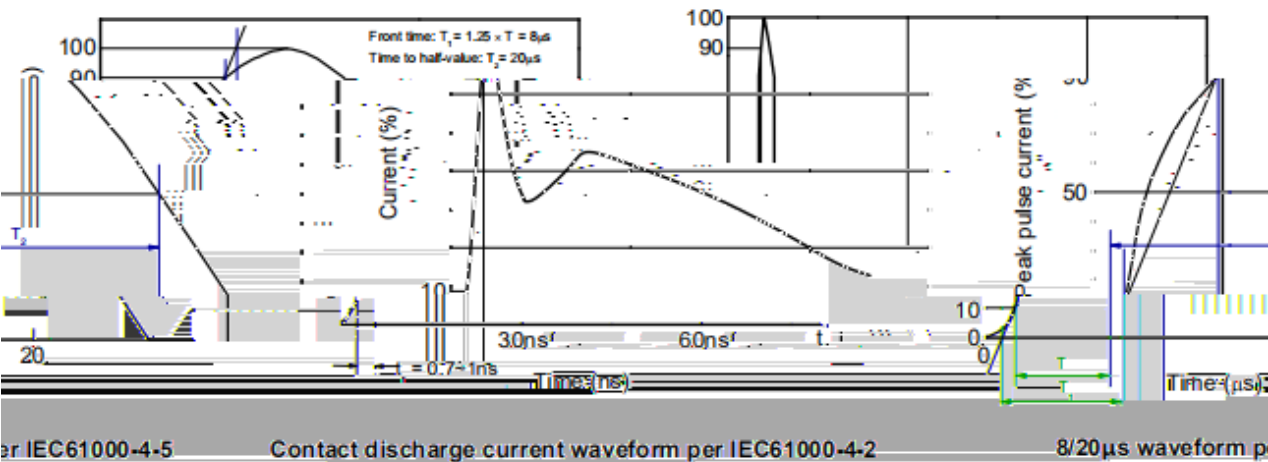
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Parameter	Symbol	Rating	Unit
Peak Pulse Power($t_p = 8/20 \text{ s}$)	P_{PK}	120	W
Peak Pulse Current($t_p = 8/20 \text{ s}$)	I_{PP}	6	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 30	KV
ESD according to IEC61000-4-2 contact discharge		± 30	
Junction temperature	T_J	125	
Operating temperature	T_{OP}	-40~85	
Lead temperature	T_L	260	
Storage Temperature	T_{STG}	-55~+150	

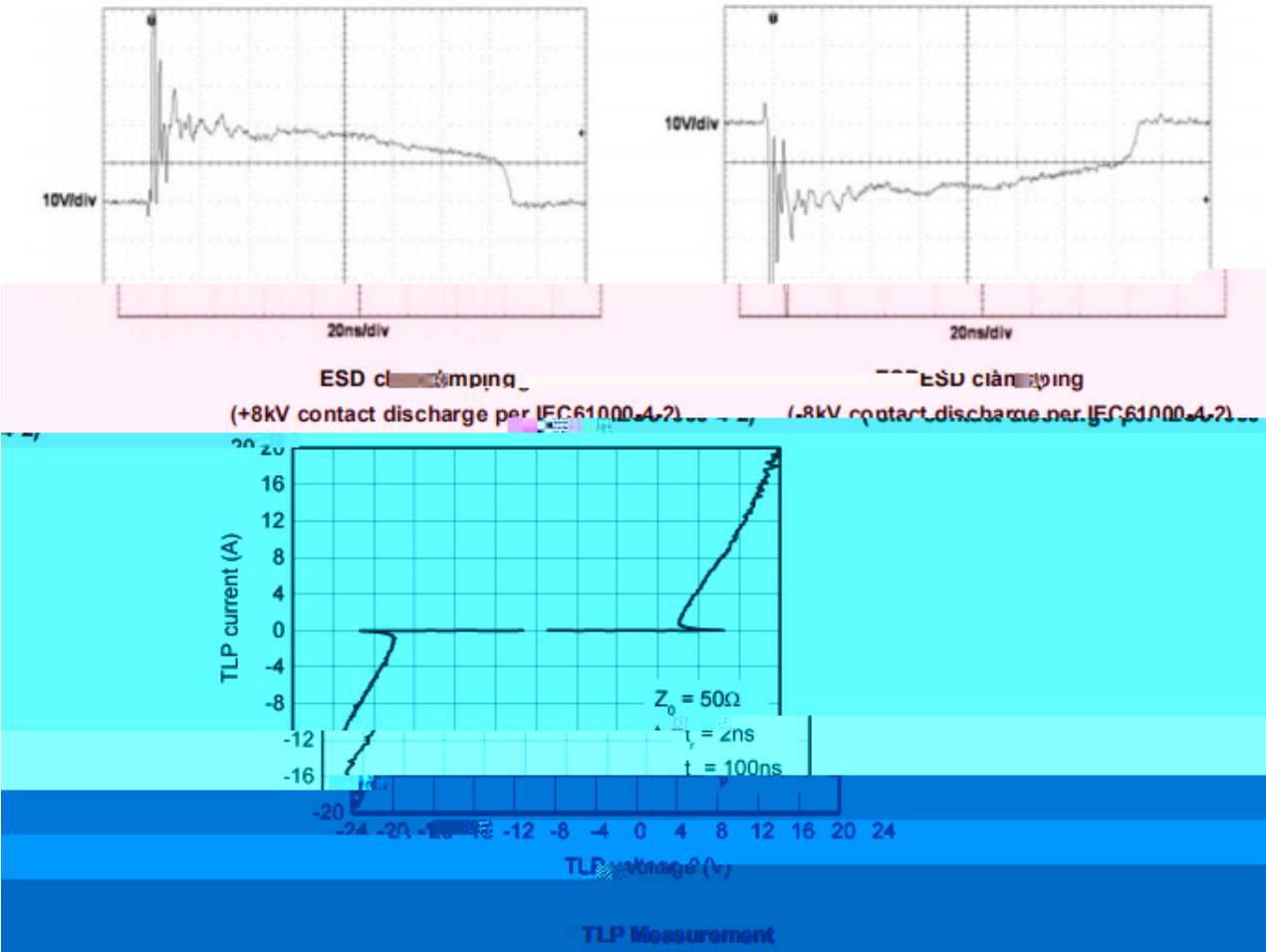
Definitions of electrical characteristics

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

/ Electrical Characteristic Curve(Ta=25)



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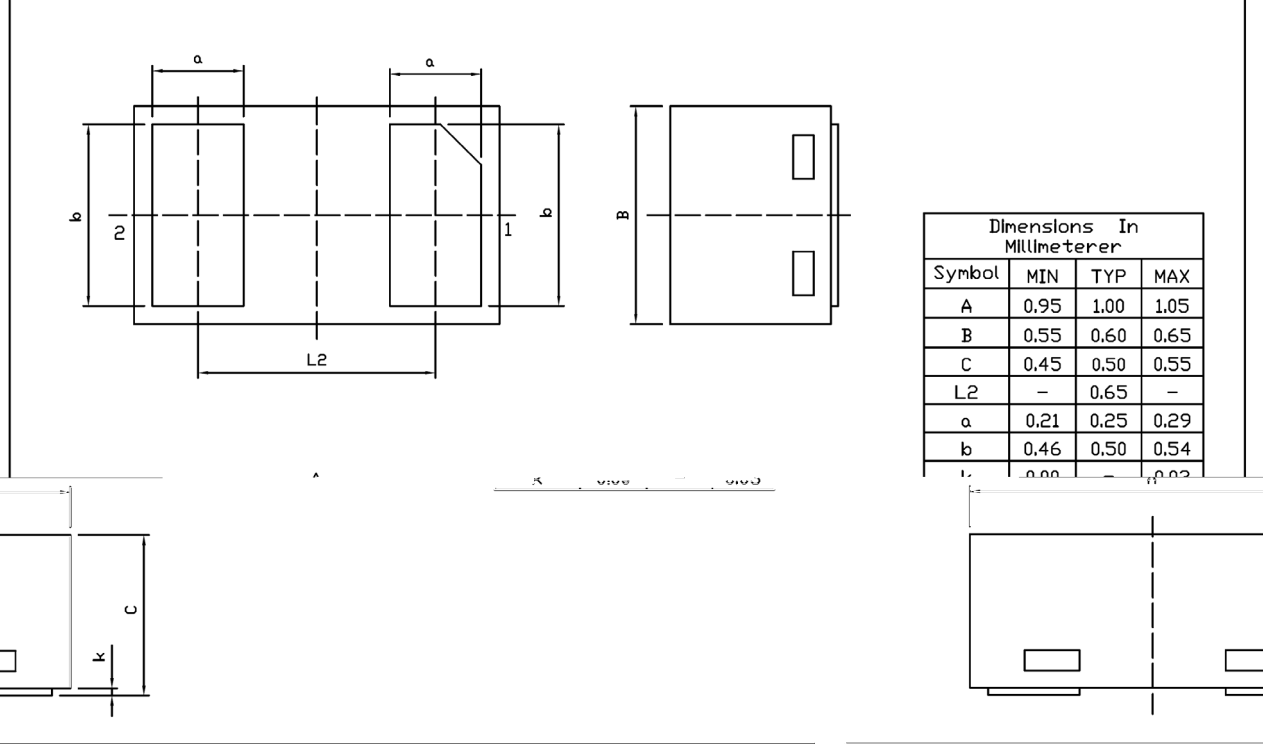
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DATA SHEET

/ Package Dimensions

DFN1006-2L

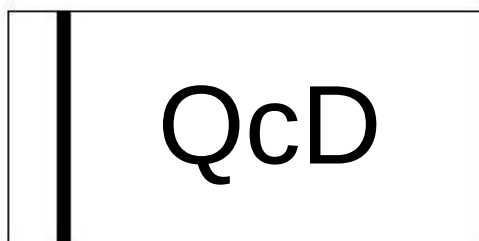
Unit:mm



Rev.01 202108



/ Marking Instructions

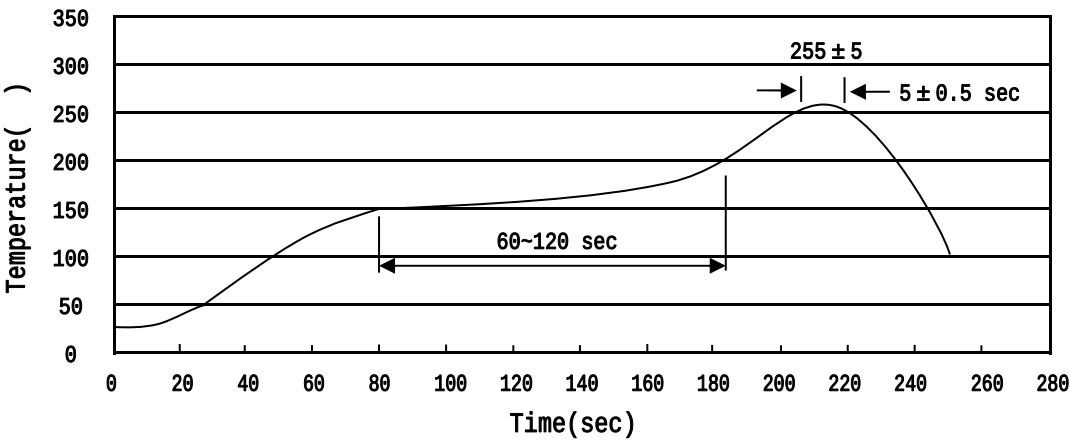


Note

Q: Automobile halogen-free product Code

cD 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.

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
DFN1006-2L	10,000	10	100,000	6	600,000	7 ×8	180×120×180	390×385×205

/ Notices