

/ 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.

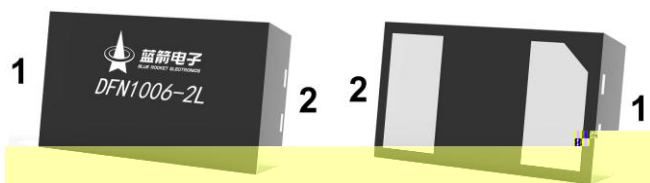
/ Applications

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($T_a=25$)

Definitions of electrical characteristics

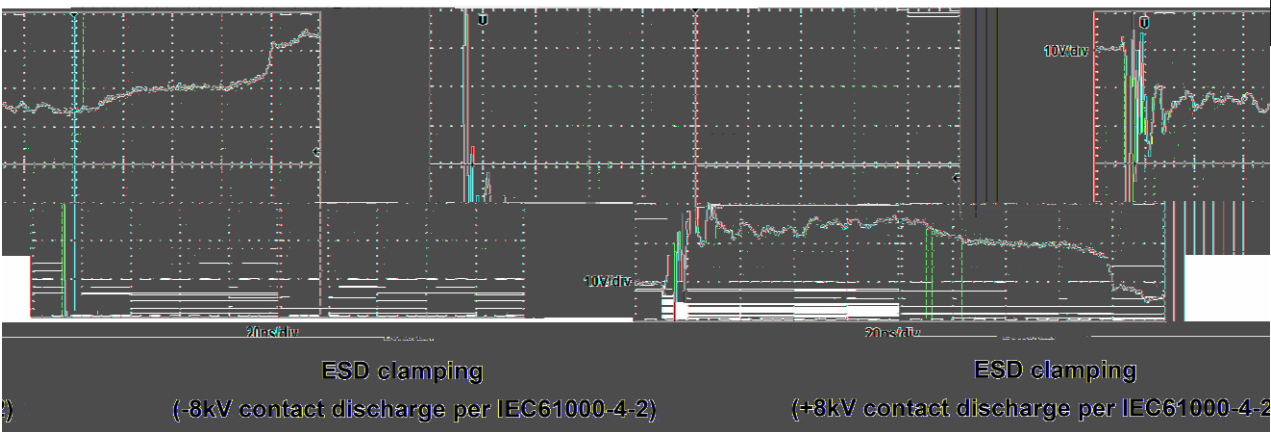
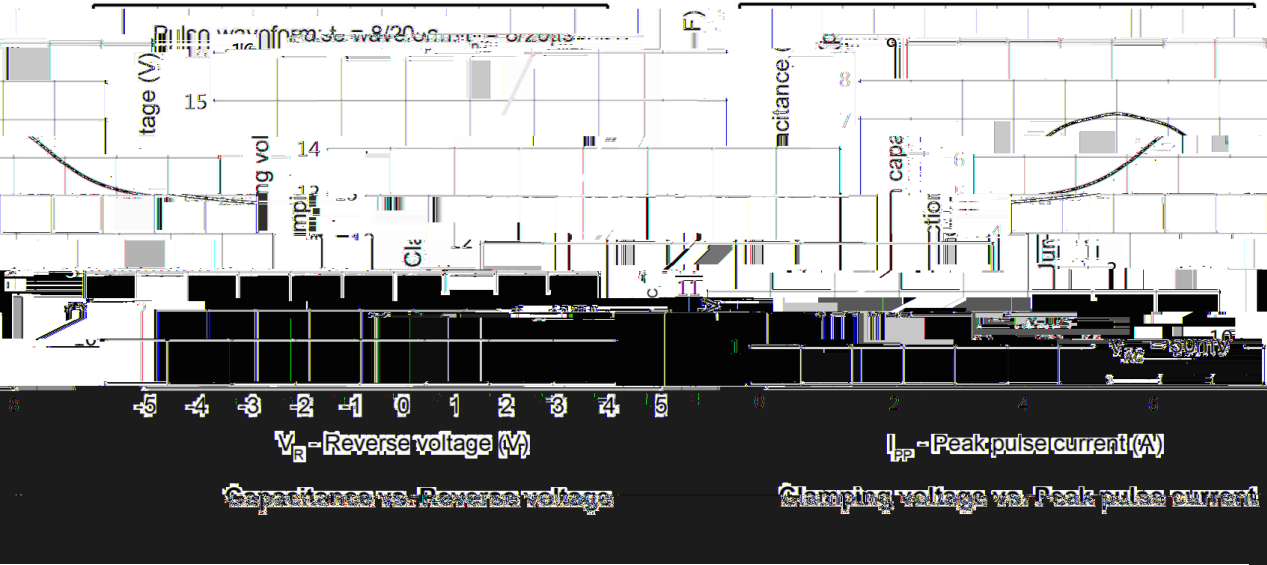
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse maximum working voltage	V_{RWM}				7.0	V
Reverse leakage current	I_R	$V_{RWM} = 7.0V$			500	nA
Reverse breakdown voltage ¹⁾	V_{BR}	$I_T=1mA$	7.2		9	V
Clamping voltage ²⁾	V_{CL}	$I_{PP} = 1A$ t_p			10	V
		$I_{PP} = 5A$ t_p			16	V
Junction Capacitance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

Notes:

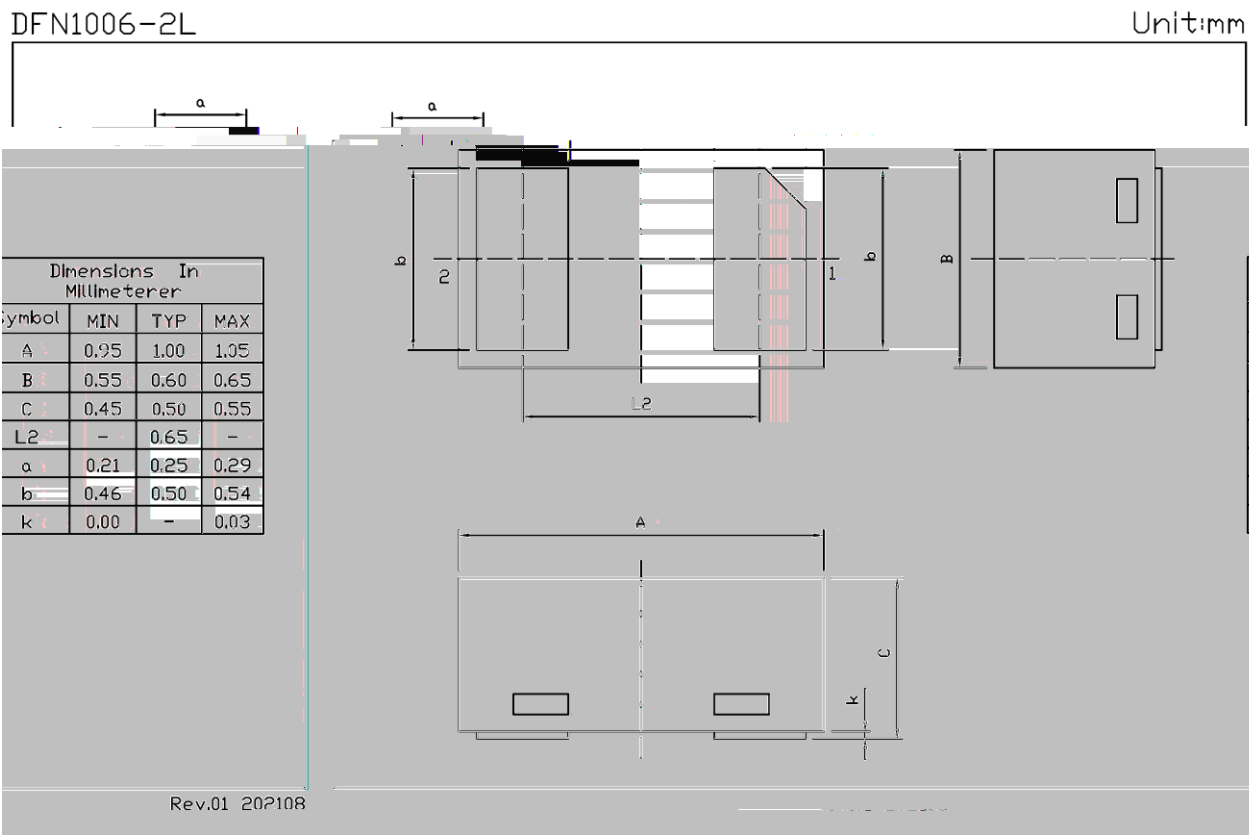
1) V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25 .

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

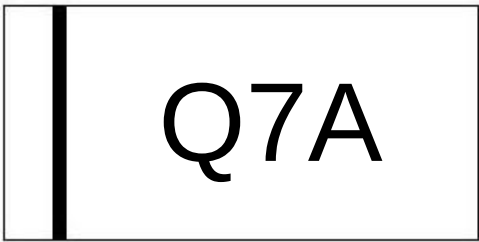
/ Electrical Characteristic Curve(Ta=25)



/ Package Dimensions



/ Marking Instructions



Q

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

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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.