

## / Descriptions

DFN1006-2L M M ESD 3 Ⅲ Ⅱ Ⅰ

DFN1006-2L Plastic Package ESD Protection Diode.

## / Features

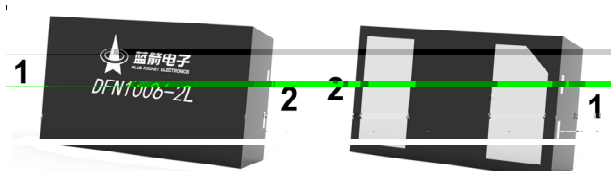
η M i \* W φ Z H η 1qv i 3 1 16KY Q i i Ⅲ IEC61000-4-2 Ⅳ 4 Ⅰ  
 ESD 3 Ⅲ i Ⅲ AEC-Q101 % I ó θ i η f β

Ultra small package, Response Time is Typically < 1 ns, ESD Rating of Class 3 (> 16 kV) per Human Body Model, IEC61000-4-2 Level 4 ESD Protection, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

## / Applications

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



## / Marking

M Ⅲ " See Marking Instructions.


**/ Absolute Maximum Ratings(Ta=25 )**

| Parameter                                       | Symbol    | Rating   | Unit |
|-------------------------------------------------|-----------|----------|------|
| Peak pulse power ( $t_p = 8/20\mu s$ )          | $P_K$     | 69       | W    |
| Peak pulse current ( $t_p = 8/20\mu s$ )        | $I_{PP}$  | 5.5      | A    |
| ESD according to IEC61000-4-2 air discharge     | $V_{ESD}$ | $\pm 15$ | KV   |
| ESD according to IEC61000-4-2 contact discharge |           | $\pm 8$  |      |
| Junction temperature                            | $T_J$     | 150      |      |
| Storage temperature                             | $T_{STG}$ | -55~+150 |      |

**/ Electrical Characteristics(Ta=25 )**

| Parameter                               | Symbol    | Test Conditions                       | Min | Typ | Max  | Unit    |
|-----------------------------------------|-----------|---------------------------------------|-----|-----|------|---------|
| Reverse maximum working voltage         | $V_{RWM}$ |                                       |     |     | 5.0  | V       |
| Reverse leakage current                 | $I_R$     | $V_{RWM} = 5V$                        |     |     | 0.5  | $\mu A$ |
|                                         |           | $V_{RWM} = 3.5V$                      |     |     | 0.3  | $\mu A$ |
| Reverse breakdown voltage <sup>1)</sup> | $V_{BR}$  | $I_T = 1mA$                           | 5.6 |     |      | V       |
| Clamping voltage <sup>2)</sup>          | $V_C$     | $I_{PP} = 1A \quad t_p = 8/20\mu s$   |     |     | 9.8  | V       |
|                                         |           | $I_{PP} = 5.5A \quad t_p = 8/20\mu s$ |     |     | 12.5 | V       |
| Junction capacitance                    | $C_J$     | $V_R = 0V \quad f = 1MHz$             |     |     | 15   | pF      |

Notes:

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

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

/ Electrical Characteristic Curve

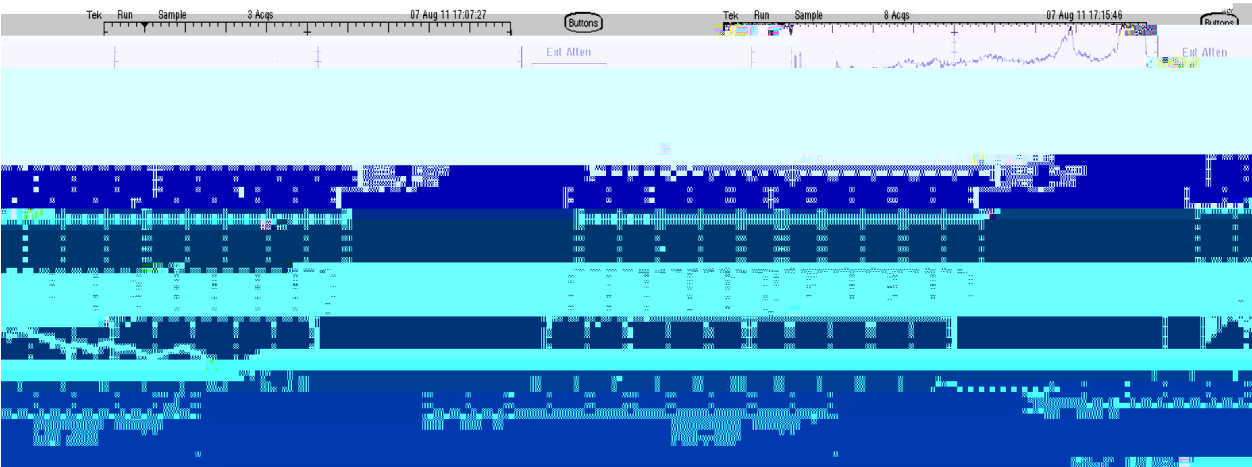


Fig2. ESD Clamping voltage screenshot

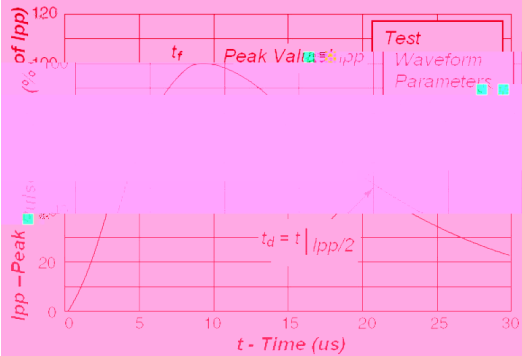
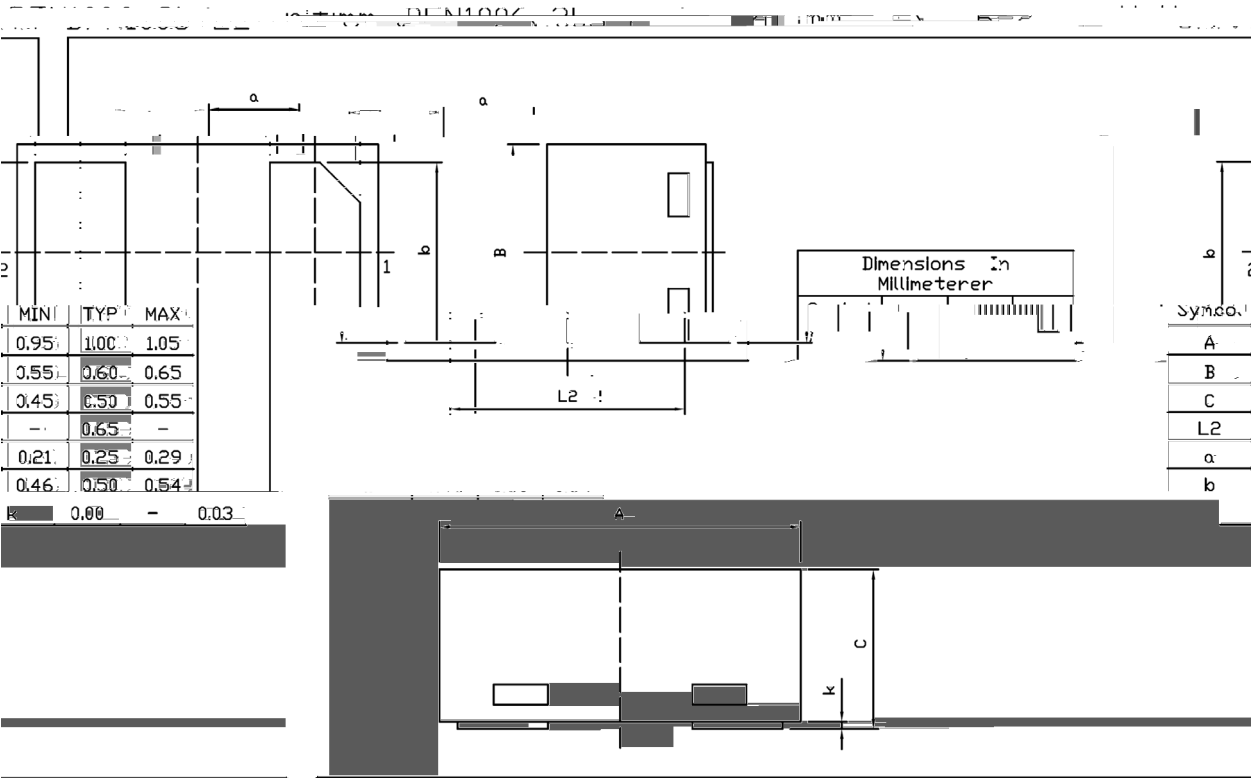


Fig3. Pulse Waveform

/ Package Dimensions



/ Marking Instructions

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걥 걦 걧 걨 걩 걪 걫 걬 걭 걮 걯 거 걱 걲 걳 건 걵 걶 걷 걸 걹 걺 걻 걼 걽 걾 걿 검 겁 겂 것 겄 겅 겆 겇 겈 겉 겊 겋 게 겍 겎 겏 겐 겑 겒 겓 겔 겕 겖 겗 겘 겙 겚 겛 겜 겝 겞 겟 겠 겡 겢 겣 겤 겥 겦 겧 겨 격 겪 겫 견 겭 겮 겯 결 겱 겲 겳 겴 겵 겶 겷 겸 겹 겺 겻 겼 경 겾 겿 곀 곁 곂 곃 계 곅 곆 곇 곈 곉 곊 곋 곌 곍 곎 곏 곐 곑 곒 곓 곔 곕 곖 곗 곘 곙 곚 곛 곜 곝 곞 곟 고 곡 곢 곣 곤 곥 곦 곧 골 곩 곪 곫 곬 곭 곮 곯 곰 곱 곲 곳 곴 공 곶 곷 곸 곹 곺 곻 과 곽 곾 곿 관 괁 괂 괃 괄 괅 괆 괇 괈 괉 괊 괋 괌 괍 괎 괏 괐 광 괒 괓 괔 괕 괖 괗 괘 괙 괚 괛 괜 괝 괞 괟 괠 괡 괢 괣 괤 괥 괦 괧 괨 괩 괪 괫 괬 괭 괮 괯 괰 괱 괲 괳 괴 괵 괶 괷 괸 괹 괺 괻 괼 괽 괾 괿 굀 굁 굂 굃 굄 굅 굆 굇 굈 굉 굊 굋 굌 굍 굎 굏 교 굑 굒 굓 굔 굕 굖 굗 굘 굙 굚 굛 굜 굝 굞 굟 굠 굡 굢 굣 굤 굥 굦 굧 굨 굩 굪 굫 구 국 굮 굯 군 굱 굲 굳 굴 굵 굶 굷 굸 굹 굺 굻 굼 굽 굾 굿 궀 궁 궂 궃 궄 궅 궆 궇 궈 궉 궊 궋 권 궍 궎 궏 궐 궑 궒 궓 궔 궕 궖 궗 궘 궙 궚 궛 궜 궝 궞 궟 궠 궡 궢 궣 궤 궥 궦 궧 궨 궩 궪 궫 궬 궭 궮 궯 궰 궱 궲 궳 궴 궵 궶 궷 궸 궹 궺 궻 궼 궽 궾 궿 귀 귁 귂 귃 귄 귅 귆 귇 귈 귉 귊 귋 귌 귍 귎 귏 귐 귑 귒 귓 귔 귕 귖 귗 귘 귙 귚 귛 규 귝 귞 귟 균 귡 귢 귣 귤 귥 귦 귧 귨 귩 귪 귫 귬 귭 귮 귯 귰 귱 귲 귳 귴 귵 귶 귷 그 극 귺 귻 근 귽 귾 귿 글 긁 긂 긃 긄 긅 긆 긇 금 급 긊 긋 긌 긍 긎 긏 긐 긑 긒 긓 긔 긕 긖 긗 긘 긙 긚 긛 긜 긝 긞 긟 긠 긡 긢 긣 긤 긥 긦 긧 긨 긩 긪 긫 긬 긭 긮 긯 기 긱 긲 긳 긴 긵 긶 긷 길 긹 긺 긻 긼 긽 긾 긿 김 깁 깂 깃 깄 깅 깆 깇 깈 깉 깊 깋 까 깍 깎 깏 깐 깑 깒 깓 깔 깕 깖 깗 깘 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