



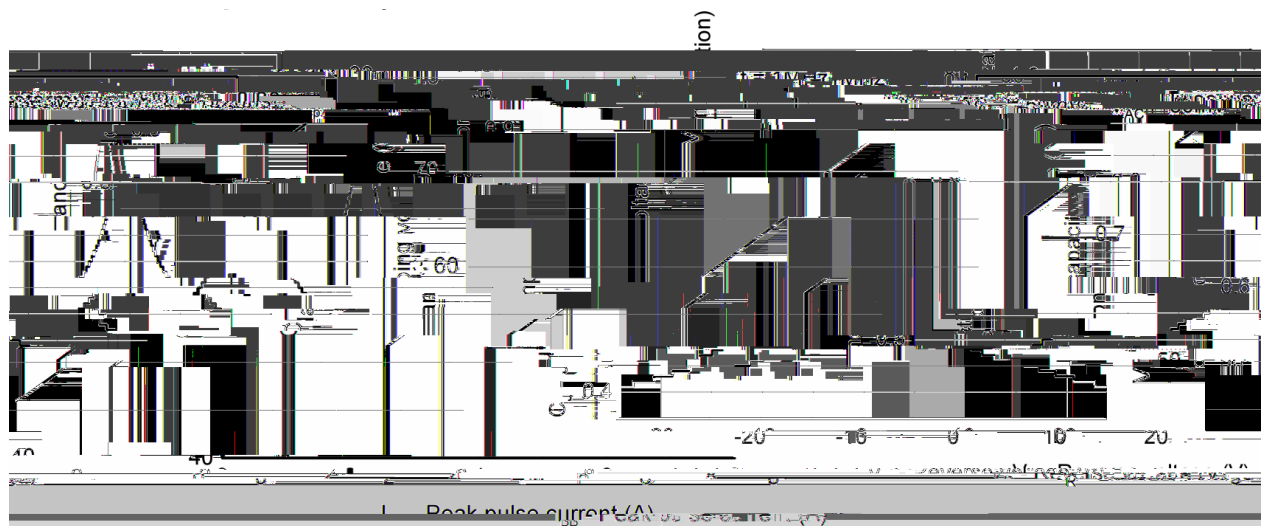
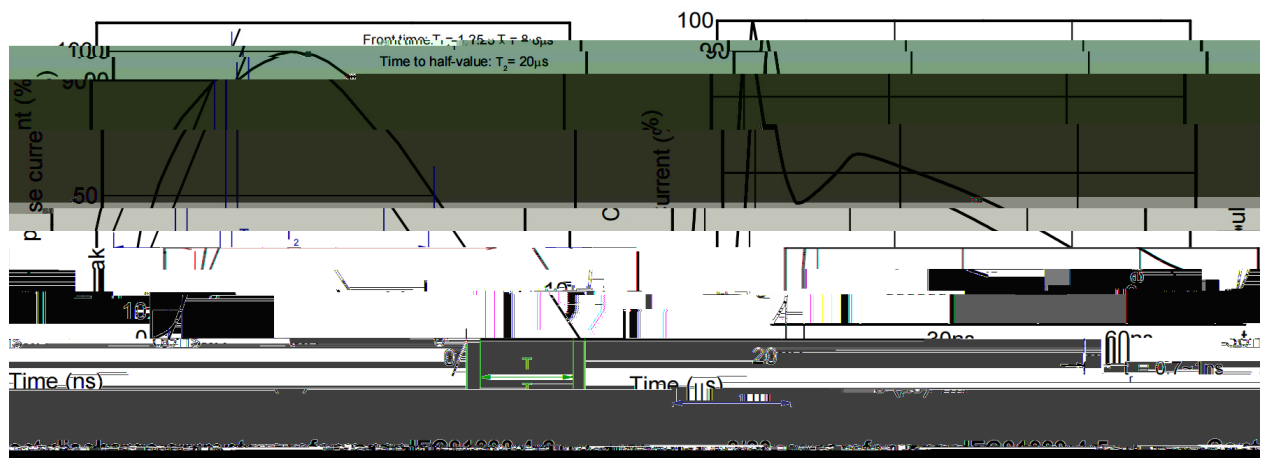
| Parameter                                       | Symbol    | Rating   | Unit |
|-------------------------------------------------|-----------|----------|------|
| Peak pulse power ( $t_p = 8/20 \text{ s}$ )     | $P_K$     | 420      | W    |
| Peak pulse current ( $t_p = 8/20 \text{ s}$ )   | $I_{PP}$  | 7        | A    |
| ESD according to IEC61000-4-2 air discharge     | $V_{ESD}$ | $\pm 30$ | KV   |
| ESD according to IEC61000-4-2 contact discharge |           | $\pm 30$ |      |
| Junction temperature                            | $T_J$     | 125      | °C   |
| Storage temperature                             | $T_{STG}$ | -55~+150 |      |

| Parameter                               | Symbol    | Test Conditions                          | Min | Typ  | Max  | Unit |
|-----------------------------------------|-----------|------------------------------------------|-----|------|------|------|
| Reverse maximum working voltage         | $V_{RWM}$ |                                          |     |      | ¥ 36 | V    |
| Reverse leakage current                 | $I_R$     | $V_{RWM} = ¥ 36V$                        |     |      | 100  | nA   |
| Reverse breakdown voltage <sup>1)</sup> | $V_{BR}$  | $I_T = 1mA$                              | 36  |      |      | V    |
| Clamping voltage <sup>2)</sup>          | $V_C$     | $I_{PP} = 1A \quad t_p = 8/20 \text{ s}$ |     | 46   | 48   | V    |
|                                         |           | $I_{PP} = 7A \quad t_p = 8/20 \text{ s}$ |     | 75   | 77   | V    |
|                                         |           | $V_{ESD}=8KV$ <sup>3)</sup>              |     | 65   |      | V    |
| Junction capacitance                    | $C_J$     | $V_R = 0V \quad f = 1MHz$                |     | 15   | 20   | pF   |
| Clamping voltage <sup>4)</sup>          | $V_{CL}$  | $I_{PP} = 16A \quad t_p = 100ns$         |     | 60   |      | V    |
| Dynamic resistance <sup>4)</sup>        | $R_{DYN}$ |                                          |     | 0.22 |      |      |

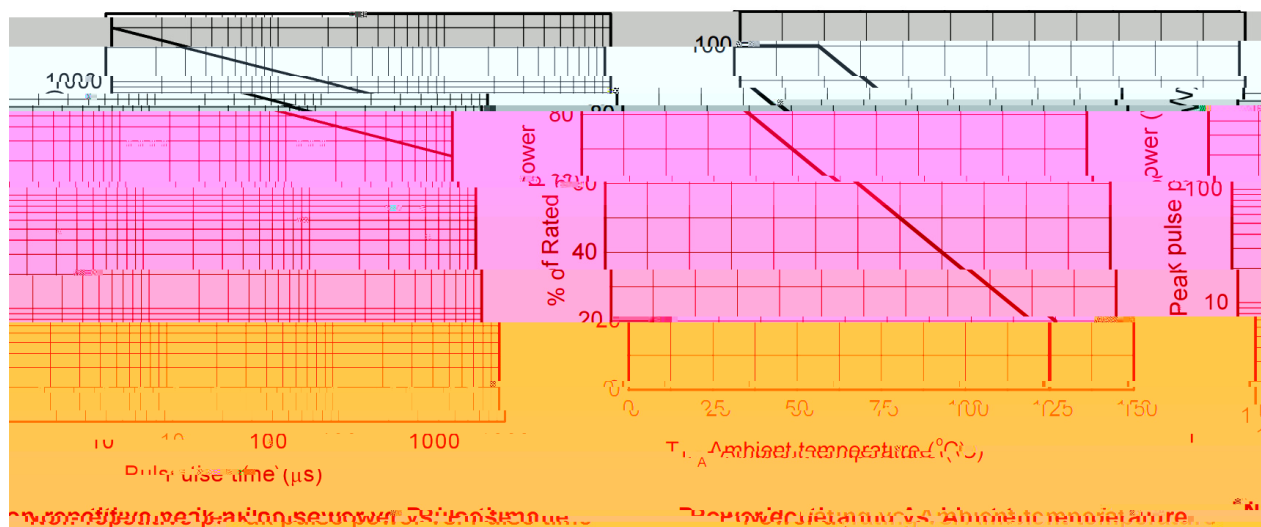
Notes:

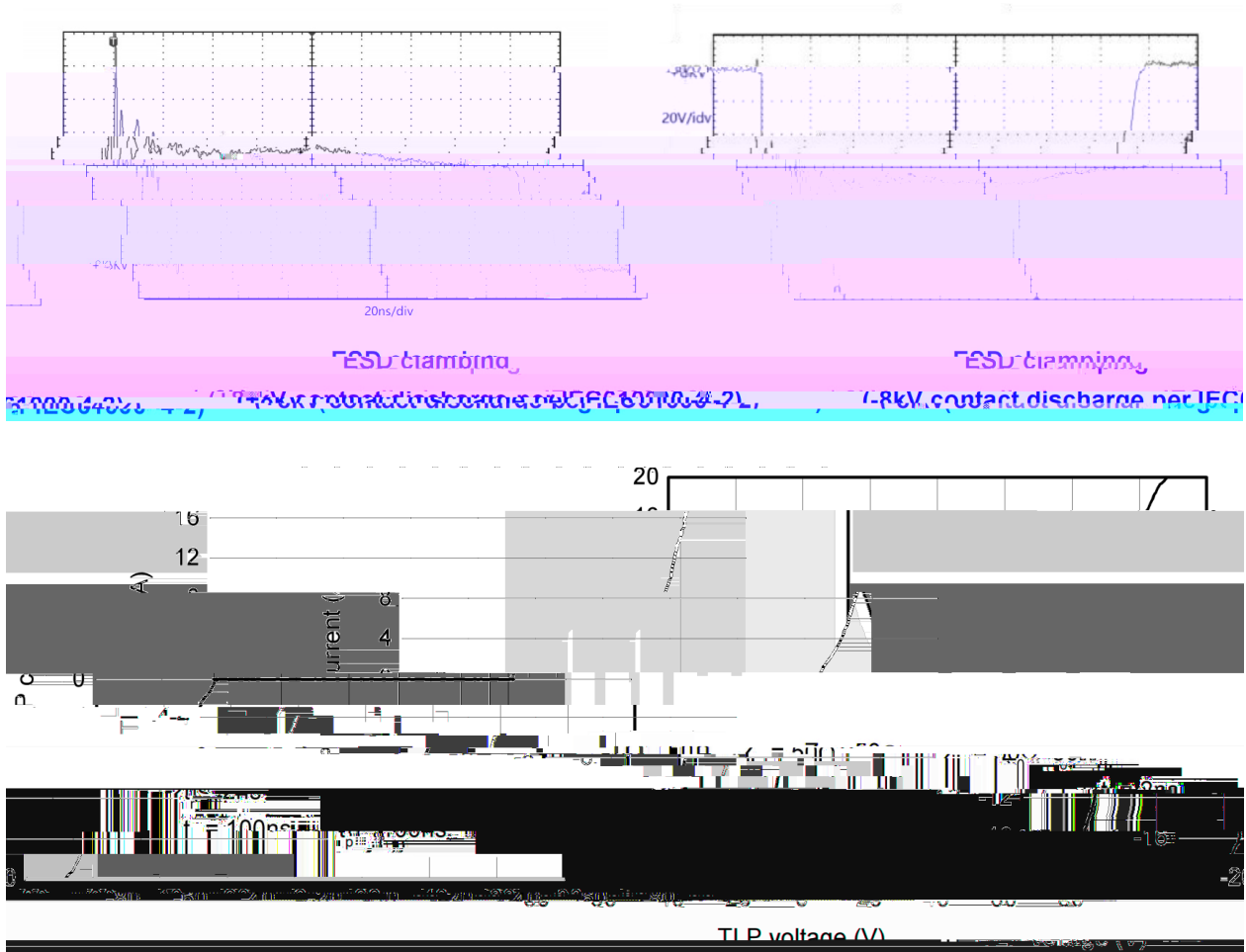
- 1)  $V_{BR}$  is measured with a pulse test current  $I_T$  at an ambient temperature of 25 °C.
- 2) Non-repetitive current pulse, according to IEC61000-4-5.
- 3) Contact discharge mode, according to IEC61000-4-2.
- 4) TLP parameter:  $Z_0 = 50 \Omega$ ,  $t_p = 100ns$ ,  $t_r = 2ns$ , averaging window from 60ns to 80ns.  $R_{DYN}$  is calculated from 4A to 16A.

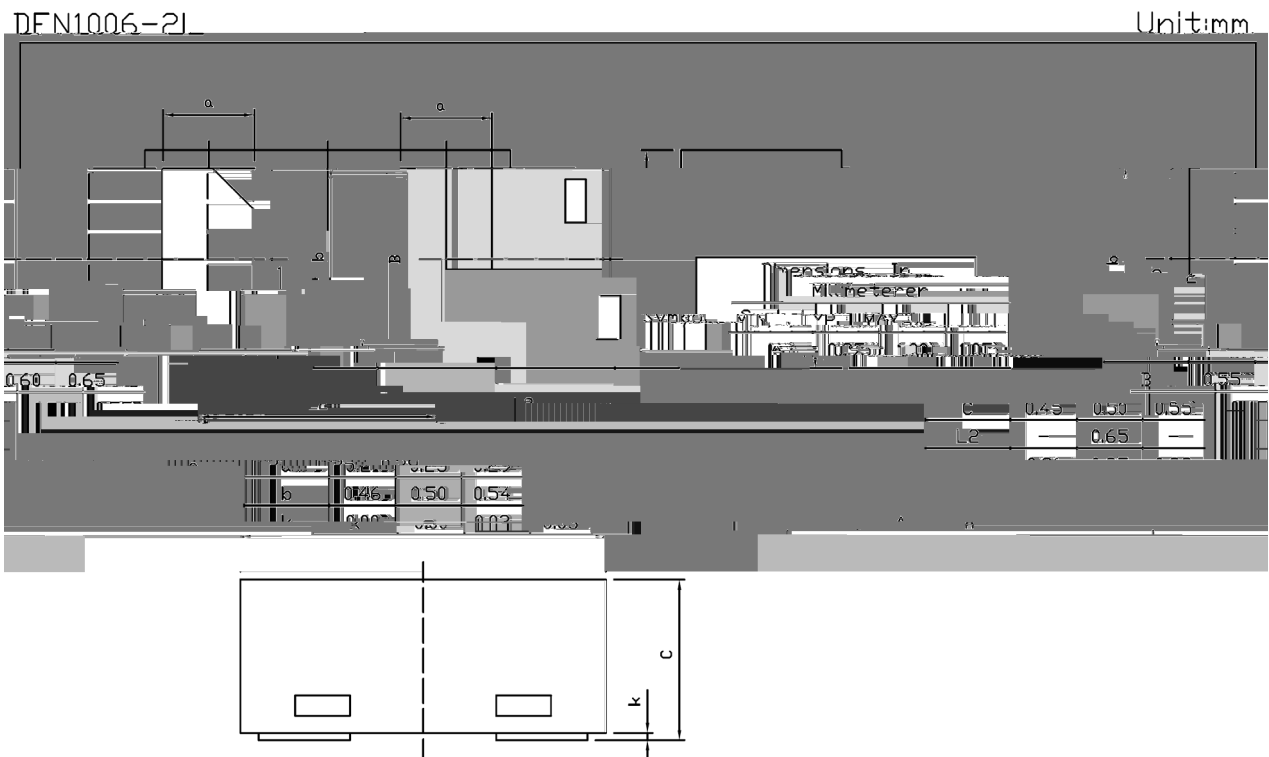




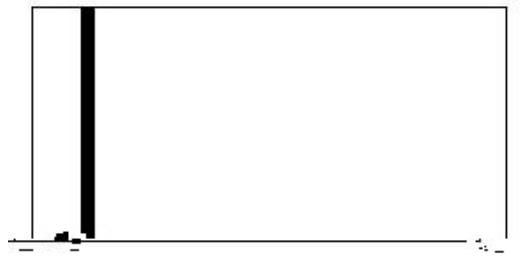
Resistance vs. Reverse voltage      Clamping voltage vs. Peak pulse current      Capacitance vs. Reverse voltage







Rev.A Mar.-2024



Temperature Profile for IR Reflow Soldering(Pb-Free)

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|  |
|  |
|  |
|  |
|  |

- 1

150 180

60 90sec;

2

245±5

5±0.5sec;

3

2 10

/sec.
- Note:

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

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 <sup>3</sup> ) | Area (mm <sup>2</sup> ) | Volume (mm <sup>3</sup> ) |
|--------------|-------|-----------|-------------------------|-------------------------|---------------------------|
|--------------|-------|-----------|-------------------------|-------------------------|---------------------------|