## Ã a ? d / Absolute Maximum Ratings(Ta=25 ; )

| @ ƒ<br>Parameter | … Z<br>Symbol | ƒ ›<br>Rating | % y<br>Unit |
|---|---|---|---|
| Peak pulse power ($t_p$ = 8/20 s) | $P_K$ | 320 | W |
| Peak pulse current ($t_p$ = 8/20 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 | $T_J$ | -55~+150 | |
| Storage temperature | $T_{STG}$ | -55~+150 | |

## Ô4ì × ? d / Electrical Characteristics(Ta=25 ; )

| @ ƒ<br>Parameter | … Z<br>Symbol | y ¡ Ú ^<br>Test Conditions | Â 4 ›<br>Min | Á º ›<br>Typ | Â Ý ›<br>Max | % y<br>Unit |
|---|---|---|---|---|---|---|
| Reverse maximum working voltage | $V_{RWM}$ | | | | 18 | V |
| Reverse leakage current | $I_R$ | $V_{RWM}$ = 18V | | | 1 | uA |
| Reverse breakdown voltage[1)] | $V_{BR}$ | $I_T$ = 1mA | 19 | | | V |
| Clamping voltage [2)] | $V_C$ | $I_{PP}$ = 1A $t_p$ = 8/20 s | | | 26 | V |
| | | $I_{PP}$ = 6A $t_p$ = 8/20 s | | | 40 | V |
| Junction capacitance | $C_{I/O}$ | $V_R$ = 0V f = 1MHz<br>Between I/O Pins and GND | | | 40 | pF |

Notes:

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

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

## Ô ? d • Ž ¢ / Electrical Characteristic Curve

Fig.1 Non-Repetitive Pulse Power vs.Pulse Time

Fig.2 Pulse Waveform

## Ø ¤ = ) ¢ / Package Dimensions

## , M y ƒ / Marking Instructions

# QJA

ª ¢ y

Q y V ñ —)í D } ö œ

0 ' y º Z W A

Note y

Q y Automobile halogen-free product Code

JA y Product Type

## š WD t … • Ž ¢ ( x / ) / : K S V K X G Z [ X K 6 X U L O R K L U X / 8 8 K L R U ] 9 U R J K X O T M 6

| |
|---|
| |
| |
| |
| |
| |
| |

ª ¢ y

1o• Ä ½ “ † 150 ½200 - k ž • 60 ½120sec;

2o• Q › “ † 255 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~200 - , Time:60~120sec.

2.Peak Temp.:255 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

## ÂD /Cã p ¯ » ] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

## G P á / Packaging SPEC.

2 & x / REEL

| Package Type 7>û ˜ E | Units ;>û ¦H | | | | | Dimension ;>û p . (unit Æmm³) | | |
|---|---|---|---|---|---|---|---|---|
| | Units/Reel / -- | Reels/Inner Box -- /- | Units/Inner Box /- | Inner Boxes/Outer Box - /1ç | Units/Outer Box /1ç | Reel | Inner Box× | Outer Box1ç |
| DFN1006-2L | 10,000 | 10 | 100,000 | 6 | 600,000 | 7 s ×8 | 180×120×180 | 390×385×205 |

## „ Ð y ƒ