NX3008PBKMB

30 V, single P-channel Trench MOSFET Rev. 1 — 11 May 2012

Product data sheet

Product profile

1.1 General description

P-channel enhancement mode Field-Effect Transistor (FET) in a leadless ultra small DFN1006B-3 (SOT883B) Surface-Mounted Device (SMD) plastic package using Trench MOSFET technology.

1.2 Features and benefits

- Very fast switching
- Low threshold voltage
- Trench MOSFET technology
- ESD protection up to 2 kV
- Ultra thin package profile with 0.37 mm height

1.3 Applications

- Relay driver
- High-speed line driver

- High-side loadswitch
- Switching circuits

1.4 Quick reference data

Table 1. Quick reference data

| Symbol | Parameter | Conditions | | Min | Тур | Max | Unit |
|-------------------|----------------------------------|---|------------|-----|-----|------|------|
| V_{DS} | drain-source voltage | T _j = 25 °C | | - | - | -30 | V |
| V_{GS} | gate-source voltage | | | -8 | - | 8 | V |
| I _D | drain current | V_{GS} = -4.5 V; T_{amb} = 25 °C | <u>[1]</u> | - | - | -300 | mA |
| Static charact | eristics | | | | | | |
| R _{DSon} | drain-source on-state resistance | $V_{GS} = -4.5 \text{ V}; I_D = -200 \text{ mA}; T_j = 25 \text{ °C}$ | | - | 2.8 | 4.1 | Ω |

^[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for drain 1 cm².



2. Pinning information

Table 2. Pinning information

| | _ | | | |
|-----|--------|-------------|--|----------------|
| Pin | Symbol | Description | Simplified outline | Graphic symbol |
| 1 | G | gate | | |
| 2 | S | source | 1 | D |
| 3 | D | drain | Transparent top view SOT883B (DFN1006B-3) | G S 017aaa259 |

3. Ordering information

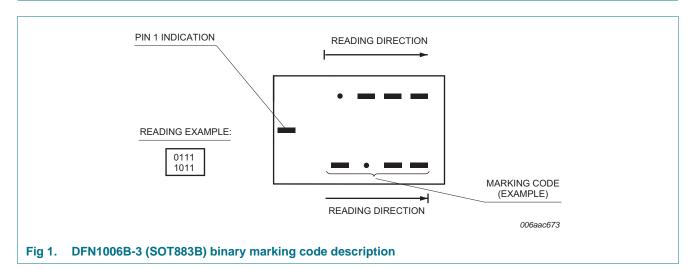
Table 3. Ordering information

| Type number | Package | Package | | | | | |
|-------------|------------|--|---------|--|--|--|--|
| | Name | Description | Version | | | | |
| NX3008PBKMB | DFN1006B-3 | Leadless ultra small plastic package; 3 solder lands; body 1.0 × 0.6 × 0.37 mm | SOT883B | | | | |

4. Marking

Table 4. Marking codes

| Type number | Marking code |
|-------------|--------------|
| NX3008PBKMB | 0000 0100 |



5. Limiting values

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

| Parameter | Conditions | | Min | Max | Unit |
|---------------------------------|---|---|--|--|--|
| | | | | | |
| drain-source voltage | $I_j = 25$ °C | | - | -30 | V |
| gate-source voltage | | | -8 | 8 | V |
| drain current | V _{GS} = -4.5 V; T _{amb} = 25 °C | <u>[1]</u> | - | -300 | mΑ |
| | V _{GS} = -4.5 V; T _{amb} = 100 °C | <u>[1]</u> | - | -185 | mΑ |
| peak drain current | T_{amb} = 25 °C; single pulse; $t_p \le 10 \mu s$ | | - | -1.2 | Α |
| total power dissipation | T _{amb} = 25 °C | [2] | - | 360 | mW |
| | | [1] | - | 715 | mW |
| | T _{sp} = 25 °C | | - | 2700 | mW |
| junction temperature | | | -55 | 150 | °C |
| ambient temperature | | | -55 | 150 | °C |
| storage temperature | | | -65 | 150 | °C |
| diode | | | | | |
| source current | T _{amb} = 25 °C | <u>[1]</u> | - | -300 | mA |
| n rating | | | | | |
| electrostatic discharge voltage | НВМ | [3] | - | 2000 | V |
| | drain current peak drain current total power dissipation junction temperature ambient temperature storage temperature diode source current rating | $ \begin{array}{lll} drain\text{-source voltage} & T_j = 25 \ ^{\circ}\text{C} \\ gate\text{-source voltage} \\ drain current & V_{GS} = -4.5 \ ^{\circ}\text{C}, T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline V_{GS} = -4.5 \ ^{\circ}\text{C}, T_{amb} = 100 \ ^{\circ}\text{C} \\ \hline peak drain current & T_{amb} = 25 \ ^{\circ}\text{C}; single pulse; } t_p \leq 10 \ ^{\circ}\text{L} \\ total power dissipation & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline T_{sp} = 25 \ ^{\circ}\text{C} \\ \hline junction temperature \\ ambient temperature \\ storage temperature \\ \hline storage temperature \\ \hline diode \\ source current & T_{amb} = 25 \ ^{\circ}\text{C} \\ \hline rating \\ \hline \end{array} $ | $ \begin{array}{c} drain\text{-source voltage} \\ gate\text{-source voltage} \\ drain current \\ \hline \\ V_{GS} = -4.5 \text{ V}; T_{amb} = 25 \text{ °C} \\ \hline \\ V_{GS} = -4.5 \text{ V}; T_{amb} = 100 \text{ °C} \\ \hline \\ I1 \\ \hline \\ peak drain current \\ \hline \\ T_{amb} = 25 \text{ °C}; single pulse; t_p \leq 10 \text{ µs} \\ \hline \\ total power dissipation \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ I1 \\ \hline \\ T_{sp} = 25 \text{ °C} \\ \hline \\ junction temperature \\ \hline \\ ambient temperature \\ \hline \\ storage temperature \\ \hline \\ storage temperature \\ \hline \\ \\ source current \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ \hline \\ T_{amb} = 25 \text{ °C} \\ \hline \\ \hline \\ I1 \\ \hline \\ $ | $ \begin{array}{c} \text{drain-source voltage} \\ \text{gate-source voltage} \\ \text{drain current} \\ \end{array} \begin{array}{c} V_{GS} = -4.5 \text{ V}; \ T_{amb} = 25 \text{ °C} \\ \hline V_{GS} = -4.5 \text{ V}; \ T_{amb} = 100 \text{ °C} \\ \hline V_{GS} = -4.5 \text{ V}; \ T_{amb} = 100 \text{ °C} \\ \hline V_{GS} = -4.5 \text{ V}; \ T_{amb} = 100 \text{ °C} \\ \hline 11 \\ \hline Peak drain current} \\ \end{array} \begin{array}{c} T_{amb} = 25 \text{ °C}; \text{ single pulse}; \ t_p \leq 10 \text{ µs} \\ \hline T_{amb} = 25 \text{ °C} \\ \hline 11 \\ \hline T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 11 \\ T_{sp} = 25 \text{ °C} \\ \hline 12 \\ T_{sp} = 25 \text{ °C} \\ \hline 13 \\ T_{sp} = 25 \text{ °C} \\ \hline 14 \\ T_{sp} = 25 \text{ °C} \\$ | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |

- [1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for drain 1 cm².
- [2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- [3] Measured between all pins.

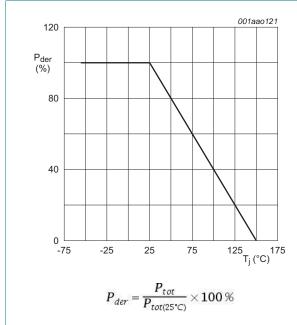


Fig 2. Normalized total power dissipation as a function of junction temperature

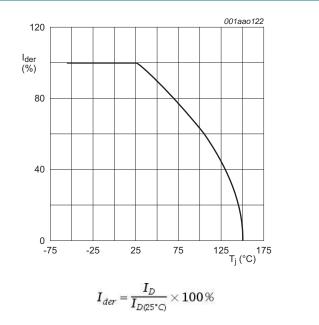
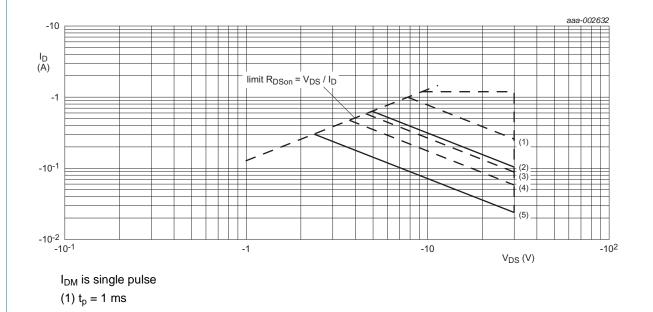


Fig 3. Normalized continuous drain current as a function of junction temperature



- (2) DC; $T_{sp} = 25 \, ^{\circ}\text{C}$
- (3) $t_p = 10 \text{ ms}$
- (4) $t_p = 100 \text{ ms}$
- (5) DC; $T_{amb} = 25$ °C; drain mounting pad 1 cm²

Fig 4. Safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage

6. Thermal characteristics

Table 6. Thermal characteristics

| Symbol | Parameter | Conditions | | Min | Тур | Max | Unit |
|-----------------------|--|-----------------|------------|-----|-----|-----|------|
| $R_{th(j-a)}$ | thermal resistance | in free air [1] | <u>[1]</u> | - | 305 | 360 | K/W |
| | from junction to ambient | | [2] | - | 150 | 175 | K/W |
| R _{th(j-sp)} | thermal resistance from junction to solder point | | | - | - | 40 | K/W |

- [1] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- [2] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for drain 1 cm².

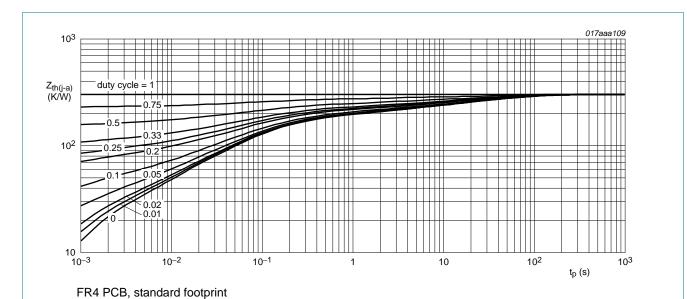


Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

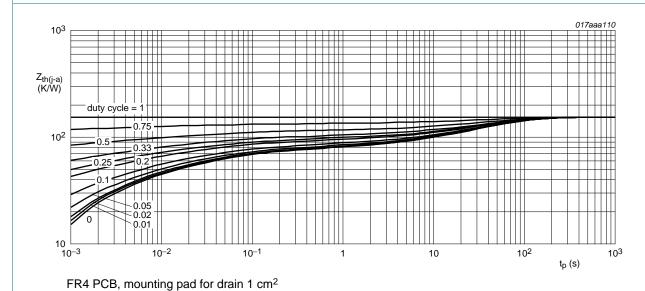


Fig 6. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

7. Characteristics

Table 7. Characteristics

| Table 7. | Characteristics | | | | | |
|---------------------|-----------------------------------|--|-------|-------|------|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| Static char | racteristics | | | | | |
| $V_{(BR)DSS}$ | drain-source breakdown voltage | $I_D = -250 \mu A; V_{GS} = 0 V; T_j = 25 °C$ | -30 | - | - | V |
| V_{GSth} | gate-source threshold voltage | $I_D = -250 \ \mu A; \ V_{DS} = V_{GS}; \ T_j = 25 \ ^{\circ}C$ | -0.6 | -0.9 | -1.1 | V |
| I _{DSS} | drain leakage current | $V_{DS} = -30 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 150 \text{ °C}$ | - | - | -10 | μΑ |
| | | $V_{DS} = -30 \text{ V}; V_{GS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | - | -1 | μΑ |
| I _{GSS} | gate leakage current | $V_{GS} = 8 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -0.2 | -1 | μΑ |
| | | $V_{GS} = -8 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -0.2 | -1 | μΑ |
| | | $V_{GS} = 4.5 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -10 | - | nΑ |
| | | $V_{GS} = -4.5 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -10 | - | nA |
| | | $V_{GS} = 2.5 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -1 | - | nA |
| | | $V_{GS} = -2.5 \text{ V}; V_{DS} = 0 \text{ V}; T_j = 25 \text{ °C}$ | - | -1 | - | nΑ |
| R_{DSon} | drain-source on-state | V_{GS} = -4.5 V; I_{D} = -200 mA; T_{j} = 25 °C | - | 2.8 | 4.1 | Ω |
| | resistance | $V_{GS} = -4.5 \text{ V}; I_D = -200 \text{ mA}; T_j = 150 \text{ °C}$ | - | 5.3 | 7.8 | Ω |
| | | V_{GS} = -2.5 V; I_D = -10 mA; T_j = 25 °C | - | 5.3 | 6.5 | Ω |
| 9 _{fs} | forward transconductance | $V_{DS} = -10 \text{ V}; I_D = -200 \text{ mA}; T_j = 25 \text{ °C}$ | - | 160 | - | mS |
| Dynamic c | haracteristics | | | | | |
| Q _{G(tot)} | total gate charge | $V_{DS} = -15 \text{ V}; I_D = -200 \text{ mA};$ | - | 0.55 | 0.72 | nC |
| Q_{GS} | gate-source charge | $V_{GS} = -4.5 \text{ V}; T_j = 25 \text{ °C}$ | - | 0.23 | - | nC |
| Q_{GD} | gate-drain charge | | - | 0.09 | - | nC |
| C _{iss} | input capacitance | $V_{DS} = -15 \text{ V; } f = 1 \text{ MHz; } V_{GS} = 0 \text{ V;}$ | - | 31 | 46 | pF |
| C _{oss} | output capacitance | $T_j = 25 ^{\circ}\text{C}$ | - | 6.5 | - | pF |
| C _{rss} | reverse transfer capacitance | | - | 2.3 | - | pF |
| t _{d(on)} | turn-on delay time | V_{DS} = -20 V; R_L = 250 Ω ; V_{GS} = -4.5 V; | - | 19 | 38 | ns |
| t _r | rise time | $R_{G(ext)} = 6 \Omega; T_j = 25 °C$ | - | 30 | - | ns |
| $t_{d(off)}$ | turn-off delay time | | - | 65 | 130 | ns |
| t _f | fall time | | - | 38 | - | ns |
| Source-dra | ain diode | | | | | |
| V_{SD} | source-drain voltage | $I_S = -200 \text{ mA}; V_{GS} = 0 \text{ V}; T_i = 25 \text{ °C}$ | -0.47 | -0.88 | -1.2 | V |

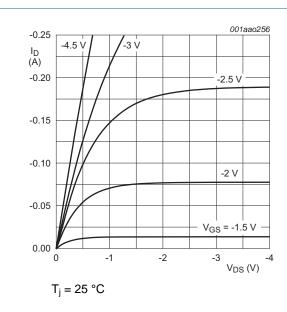
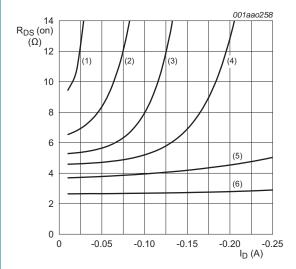


Fig 7. Output characteristics: drain current as a function of drain-source voltage; typical values



T_j = 25 °C

(1) $V_{GS} = -1.75 \text{ V}$

(2) $V_{GS} = -2.0 \text{ V}$

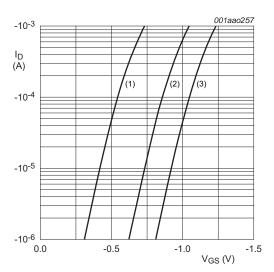
(3) $V_{GS} = -2.25 \text{ V}$

(4) $V_{GS} = -2.5 \text{ V}$

(5) $V_{GS} = -3.0 \text{ V}$

(6) $V_{GS} = -4.5 \text{ V}$

Fig 9. Drain-source on-state resistance as a function of drain current; typical values



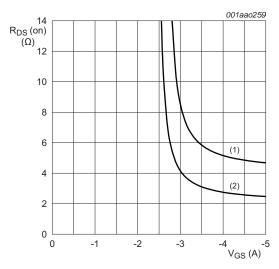
 $T_i = 25 \, ^{\circ}C; \, V_{DS} = -5 \, V$

(1) minimum values

(2) typical values

(3) maximum values

Fig 8. Subthreshold drain current as a function of gate-source voltage

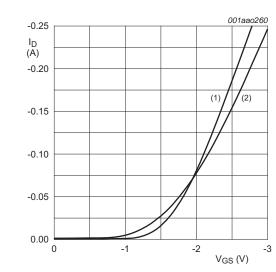


 $I_D = -200 \text{ mA}$

(1) $T_i = 150 \, ^{\circ}C$

(2) $T_j = 25 \, ^{\circ}\text{C}$

Fig 10. Drain-source on-state resistance as a function of gate-source voltage; typical values

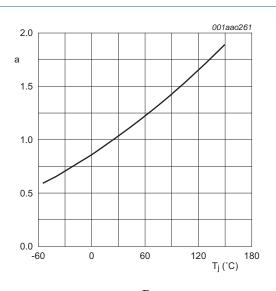


 $V_{DS} > I_D \times R_{DSon}$

(1)
$$T_j = 25 \, ^{\circ}C$$

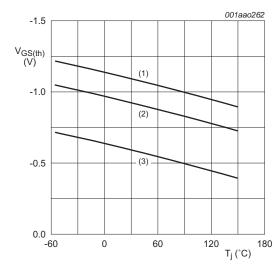
(2)
$$T_i = 150 \, ^{\circ}\text{C}$$

Fig 11. Transfer characteristics: drain current as a function of gate-source voltage; typical values



$$a = \frac{R_{DSon}}{R_{DSon(25^{\circ}C)}}$$

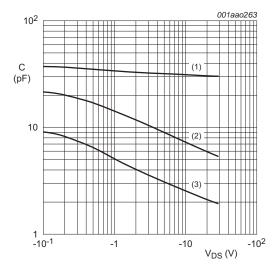
Fig 12. Normalized drain-source on-state resistance as a function of junction temperature; typical values



 I_D = -0.25 mA; V_{DS} = V_{GS}

- (1) maximum values
- (2) typical values
- (3) minimum values

Fig 13. Gate-source threshold voltage as a function of junction temperature



 $f = 1 MHz; V_{GS} = 0 V$

- (1) C_{iss}
- (2) C_{oss}
- (3) C_{rss}

Fig 14. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values

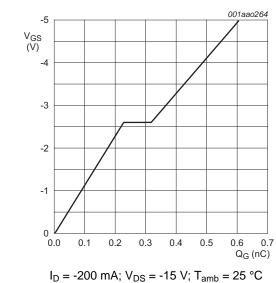


Fig 15. Gate-source voltage as a function of gate charge; typical values

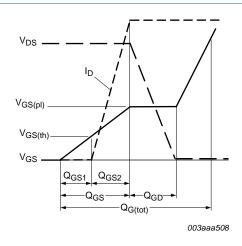
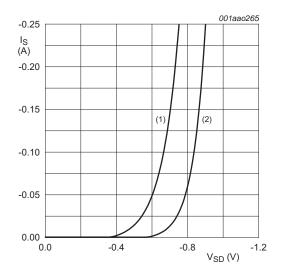


Fig 16. Gate charge waveform definitions



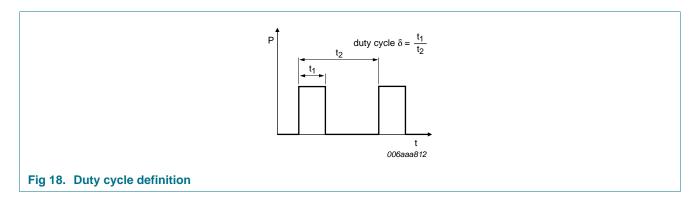
 $V_{GS} = 0 V$

(1) $T_i = 150 \, ^{\circ}\text{C}$

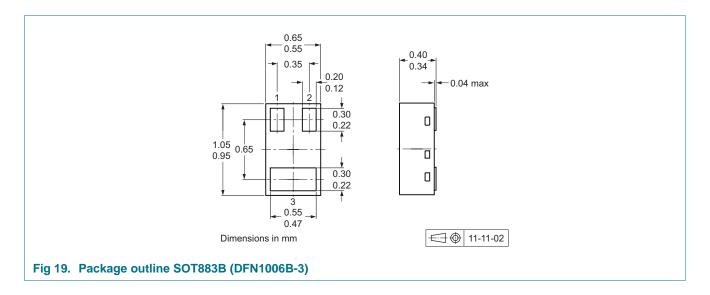
(2) $T_i = 25 \, ^{\circ}C$

Fig 17. Source current as a function of source-drain voltage; typical values

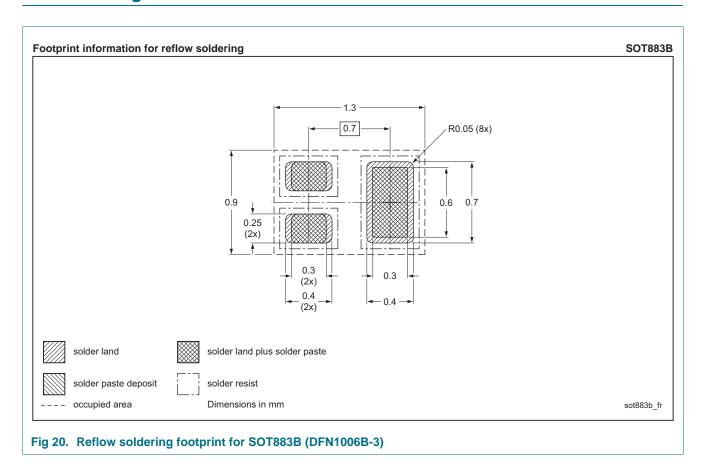
8. Test information



9. Package outline



10. Soldering





11. Revision history

Table 8. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-----------------|--------------|--------------------|---------------|------------|
| NX3008PBKMB v.1 | 20120511 | Product data sheet | - | - |

12. Legal information

12.1 Data sheet status

| Document status[1] [2] | Product status[3] | Definition |
|--------------------------------|-------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

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NX3008PBKMB

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NX3008PBKMB

30 V, single P-channel Trench MOSFET

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13. Contact information

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NX3008PBKMB

30 V, single P-channel Trench MOSFET

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