



# NX3008PBKS

30 V, 200 mA dual P-channel Trench MOSFET

Rev. 1 — 1 August 2011

Product data sheet

## 1. Product profile

### 1.1 General description

Dual P-channel enhancement mode Field-Effect Transistor (FET) in a very small SOT363 (SC-88) 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
- AEC-Q101 qualified

### 1.3 Applications

- Relay driver
- High-speed line driver
- High-side loadswitch
- Switching circuits

### 1.4 Quick reference data

Table 1. Quick reference data

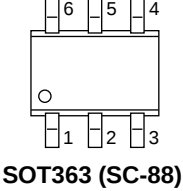
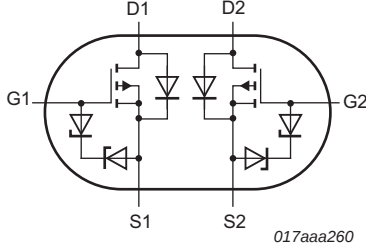
| Symbol                                         | Parameter                        | Conditions                                                              | Min                   | Typ | Max  | Unit     |
|------------------------------------------------|----------------------------------|-------------------------------------------------------------------------|-----------------------|-----|------|----------|
| <b>Per transistor</b>                          |                                  |                                                                         |                       |     |      |          |
| $V_{DS}$                                       | drain-source voltage             | $T_j = 25\text{ °C}$                                                    | -                     | -   | -30  | V        |
| $V_{GS}$                                       | gate-source voltage              |                                                                         | -8                    | -   | 8    | V        |
| $I_D$                                          | drain current                    | $V_{GS} = -4.5\text{ V};$<br>$T_{amb} = 25\text{ °C}$                   | <a href="#">[1]</a> - | -   | -200 | mA       |
| <b>Static characteristics (per transistor)</b> |                                  |                                                                         |                       |     |      |          |
| $R_{DS(on)}$                                   | drain-source on-state resistance | $V_{GS} = -4.5\text{ V};$<br>$I_D = -200\text{ mA}; T_j = 25\text{ °C}$ | -                     | 2.8 | 4.1  | $\Omega$ |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for drain 1 cm<sup>2</sup>.



2. Pinning information

Table 2. Pinning information

| Pin | Symbol | Description | Simplified outline                                                                                  | Graphic symbol                                                                                   |
|-----|--------|-------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1   | S1     | source TR1  | <br>SOT363 (SC-88) | <br>017aaa260 |
| 2   | G1     | gate TR1    |                                                                                                     |                                                                                                  |
| 3   | D2     | drain TR2   |                                                                                                     |                                                                                                  |
| 4   | S2     | source TR2  |                                                                                                     |                                                                                                  |
| 5   | G2     | gate TR2    |                                                                                                     |                                                                                                  |
| 6   | D1     | drain TR1   |                                                                                                     |                                                                                                  |

3. Ordering information

Table 3. Ordering information

| Type number | Package |                                          |         |
|-------------|---------|------------------------------------------|---------|
|             | Name    | Description                              | Version |
| NX3008PBKS  | SC-88   | plastic surface-mounted package; 6 leads | SOT363  |

4. Marking

Table 4. Marking codes

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| NX3008PBKS  | LC%                         |

[1] % = placeholder for manufacturing site code.

## 5. Limiting values

**Table 5. Limiting values**

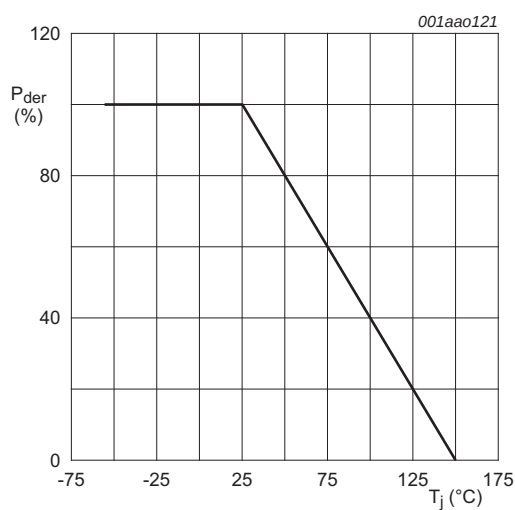
*In accordance with the Absolute Maximum Rating System (IEC 60134).*

| Symbol             | Parameter                       | Conditions                                                     | Min                   | Max  | Unit |
|--------------------|---------------------------------|----------------------------------------------------------------|-----------------------|------|------|
| Per transistor     |                                 |                                                                |                       |      |      |
| V <sub>DS</sub>    | drain-source voltage            | T <sub>j</sub> = 25 °C                                         | -                     | -30  | V    |
| V <sub>GS</sub>    | gate-source voltage             |                                                                | -8                    | 8    | V    |
| I <sub>D</sub>     | drain current                   | V <sub>GS</sub> = -4.5 V; T <sub>amb</sub> = 25 °C             | <a href="#">[1]</a> - | -200 | mA   |
|                    |                                 | V <sub>GS</sub> = -4.5 V; T <sub>amb</sub> = 100 °C            | <a href="#">[1]</a> - | -125 | mA   |
| I <sub>DM</sub>    | peak drain current              | T <sub>amb</sub> = 25 °C; single pulse; t <sub>p</sub> ≤ 10 μs | -                     | -0.8 | A    |
| P <sub>tot</sub>   | total power dissipation         | T <sub>amb</sub> = 25 °C                                       | <a href="#">[2]</a> - | 280  | mW   |
|                    |                                 |                                                                | <a href="#">[1]</a> - | 320  | mW   |
|                    |                                 | T <sub>sp</sub> = 25 °C                                        | -                     | 990  | mW   |
| Per device         |                                 |                                                                |                       |      |      |
| P <sub>tot</sub>   | total power dissipation         | T <sub>amb</sub> = 25 °C                                       | <a href="#">[2]</a> - | 445  | mW   |
| T <sub>j</sub>     | junction temperature            |                                                                | -55                   | 150  | °C   |
| T <sub>amb</sub>   | ambient temperature             |                                                                | -55                   | 150  | °C   |
| T <sub>stg</sub>   | storage temperature             |                                                                | -65                   | 150  | °C   |
| Source-drain diode |                                 |                                                                |                       |      |      |
| I <sub>S</sub>     | source current                  | T <sub>amb</sub> = 25 °C                                       | <a href="#">[1]</a> - | -200 | mA   |
| ESD maximum rating |                                 |                                                                |                       |      |      |
| V <sub>ESD</sub>   | electrostatic discharge voltage | HBM                                                            | <a href="#">[3]</a> - | 2000 | V    |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for drain 1 cm<sup>2</sup>.

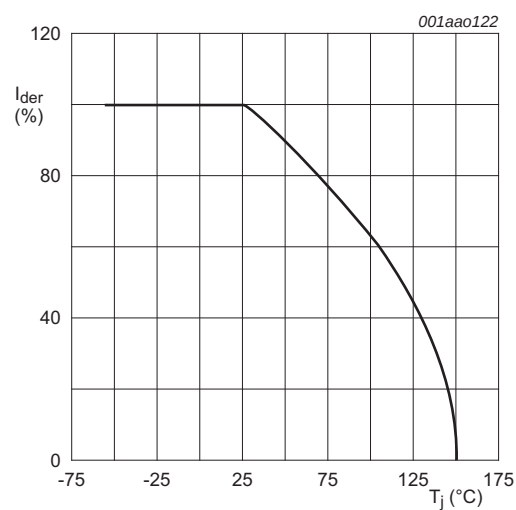
[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

[3] Measured between all pins.



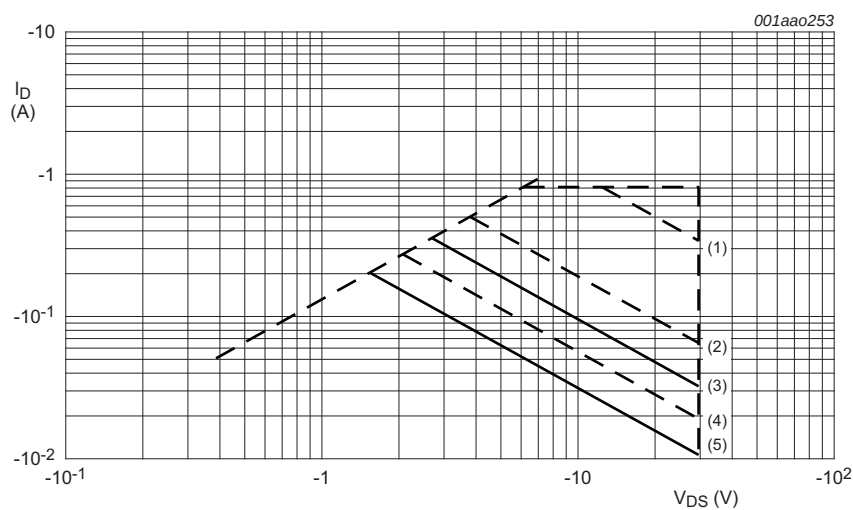
$$P_{der} = \frac{P_{tot}}{P_{tot(25^{\circ}\text{C})}} \times 100\%$$

**Fig 1. Normalized total power dissipation as a function of junction temperature**



$$I_{der} = \frac{I_D}{I_{D(25^{\circ}\text{C})}} \times 100\%$$

**Fig 2. Normalized continuous drain current as a function of junction temperature**



$I_{DM}$  is a single pulse

(1)  $t_p = 1$  ms

(2)  $t_p = 10$  ms

(3) DC;  $T_{sp} = 25^{\circ}\text{C}$

(4)  $t_p = 100$  ms

(5) DC;  $T_{amb} = 25^{\circ}\text{C}$ ; 1 cm<sup>2</sup> drain mounting pad

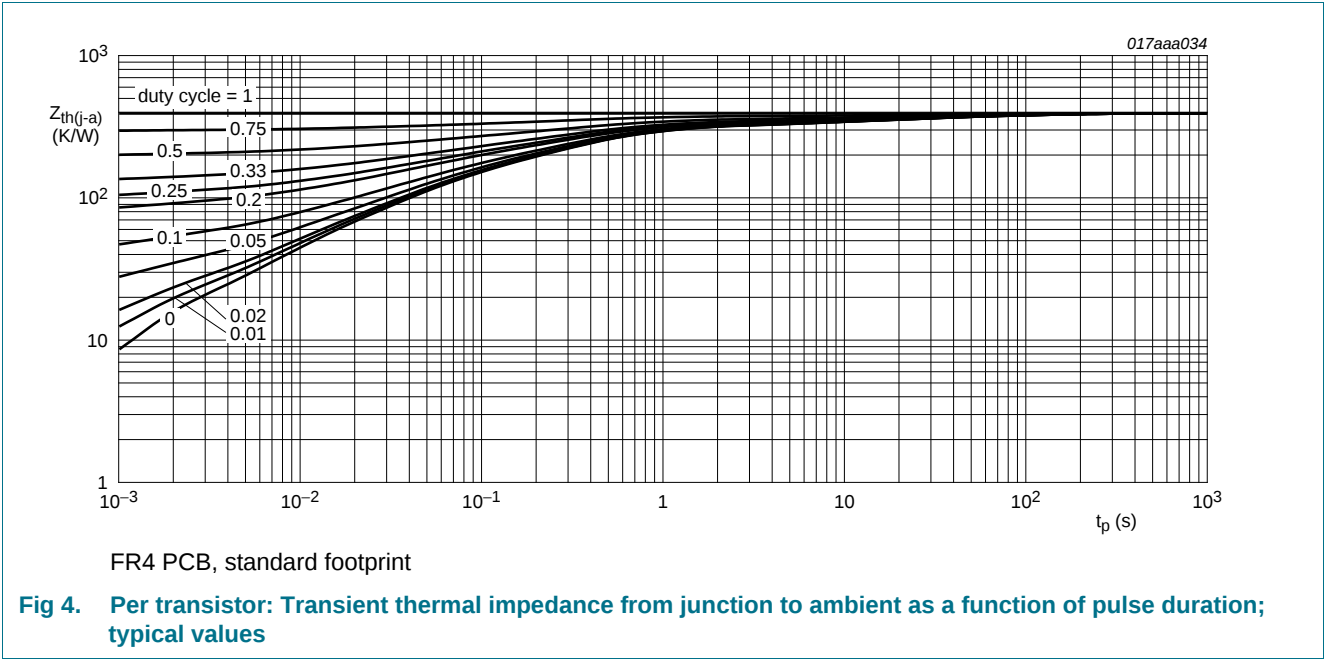
**Fig 3. Safe operating area; junction to ambient; continuous and peak drain currents as a function of drain-source voltage**

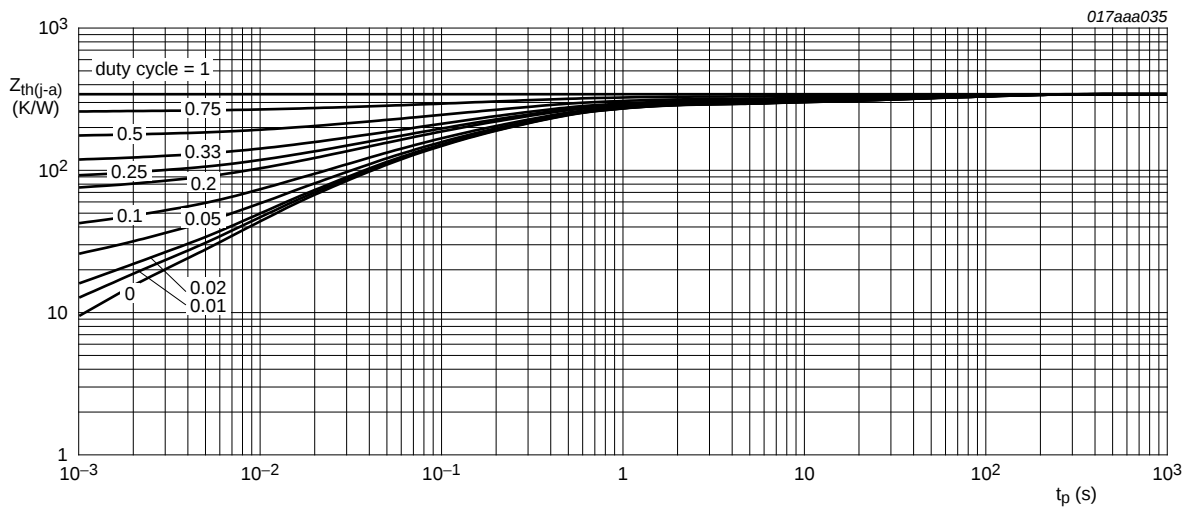
6. Thermal characteristics

Table 6. Thermal characteristics

| Symbol         | Parameter                                        | Conditions  | Min   | Typ | Max | Unit |
|----------------|--------------------------------------------------|-------------|-------|-----|-----|------|
| Per device     |                                                  |             |       |     |     |      |
| $R_{th(j-a)}$  | thermal resistance from junction to ambient      | in free air | [1] - | -   | 300 | K/W  |
| Per transistor |                                                  |             |       |     |     |      |
| $R_{th(j-a)}$  | thermal resistance from junction to ambient      | in free air | [1] - | 390 | 445 | K/W  |
|                |                                                  |             | [2] - | 340 | 390 | K/W  |
| $R_{th(j-sp)}$ | thermal resistance from junction to solder point |             | -     | -   | 130 | 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 and mounting pad for drain 1 cm<sup>2</sup>.





FR4 PCB, mounting pad for drain 1 cm<sup>2</sup>

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

## 7. Characteristics

Table 7. Characteristics

| Symbol                                          | Parameter                        | Conditions                                                                                                        | Min   | Typ   | Max  | Unit     |
|-------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------|-------|-------|------|----------|
| <b>Static characteristics (per transistor)</b>  |                                  |                                                                                                                   |       |       |      |          |
| $V_{(BR)DSS}$                                   | drain-source breakdown voltage   | $I_D = -250\ \mu A$ ; $V_{GS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                      | -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            | $V_{DS} = -30\ V$ ; $V_{GS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                        | -     | -     | -1   | $\mu A$  |
|                                                 |                                  | $V_{DS} = -30\ V$ ; $V_{GS} = 0\ V$ ; $T_j = 150\ ^\circ C$                                                       | -     | -     | -10  | $\mu A$  |
| $I_{GSS}$                                       | gate leakage current             | $V_{GS} = 8\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                          | -     | -0.2  | -1   | $\mu A$  |
|                                                 |                                  | $V_{GS} = -8\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                         | -     | -0.2  | -1   | $\mu A$  |
|                                                 |                                  | $V_{GS} = 4.5\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                        | -     | -10   | -    | nA       |
|                                                 |                                  | $V_{GS} = -4.5\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                       | -     | -10   | -    | nA       |
|                                                 |                                  | $V_{GS} = 2.5\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                        | -     | -1    | -    | nA       |
|                                                 |                                  | $V_{GS} = -2.5\ V$ ; $V_{DS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                       | -     | -1    | -    | nA       |
|                                                 |                                  |                                                                                                                   | -     | -     | -    |          |
| $R_{DSon}$                                      | drain-source on-state resistance | $V_{GS} = -4.5\ V$ ; $I_D = -200\ mA$ ; $T_j = 25\ ^\circ C$                                                      | -     | 2.8   | 4.1  | $\Omega$ |
|                                                 |                                  | $V_{GS} = -4.5\ V$ ; $I_D = -200\ mA$ ; $T_j = 150\ ^\circ C$                                                     | -     | 5.3   | 7.8  | $\Omega$ |
|                                                 |                                  | $V_{GS} = -2.5\ V$ ; $I_D = -10\ mA$ ; $T_j = 25\ ^\circ C$                                                       | -     | 5.3   | 6.5  | $\Omega$ |
| $g_{fs}$                                        | forward transconductance         | $V_{DS} = -10\ V$ ; $I_D = -200\ mA$ ; $T_j = 25\ ^\circ C$                                                       | -     | 160   | -    | mS       |
| <b>Dynamic characteristics (per transistor)</b> |                                  |                                                                                                                   |       |       |      |          |
| $Q_{G(tot)}$                                    | total gate charge                | $V_{DS} = -15\ V$ ; $I_D = -200\ mA$ ;<br>$V_{GS} = -4.5\ V$ ; $T_j = 25\ ^\circ C$                               | -     | 0.55  | 0.72 | nC       |
| $Q_{GS}$                                        | gate-source charge               |                                                                                                                   | -     | 0.23  | -    | nC       |
| $Q_{GD}$                                        | gate-drain charge                |                                                                                                                   | -     | 0.09  | -    | nC       |
| $C_{iss}$                                       | input capacitance                | $V_{DS} = -15\ V$ ; $f = 1\ MHz$ ; $V_{GS} = 0\ V$ ;<br>$T_j = 25\ ^\circ C$                                      | -     | 31    | 46   | pF       |
| $C_{oss}$                                       | output capacitance               |                                                                                                                   | -     | 6.5   | -    | pF       |
| $C_{rss}$                                       | reverse transfer capacitance     |                                                                                                                   | -     | 2.3   | -    | pF       |
| $t_{d(on)}$                                     | turn-on delay time               | $V_{DS} = -20\ V$ ; $R_L = 250\ \Omega$ ; $V_{GS} = -4.5\ V$ ;<br>$R_{G(ext)} = 6\ \Omega$ ; $T_j = 25\ ^\circ C$ | -     | 19    | 38   | ns       |
| $t_r$                                           | rise time                        |                                                                                                                   | -     | 30    | -    | ns       |
| $t_{d(off)}$                                    | turn-off delay time              |                                                                                                                   | -     | 65    | 130  | ns       |
| $t_f$                                           | fall time                        |                                                                                                                   | -     | 38    | -    | ns       |
| <b>Source-drain diode (per transistor)</b>      |                                  |                                                                                                                   |       |       |      |          |
| $V_{SD}$                                        | source-drain voltage             | $I_S = -200\ mA$ ; $V_{GS} = 0\ V$ ; $T_j = 25\ ^\circ C$                                                         | -0.47 | -0.88 | -1.2 | V        |

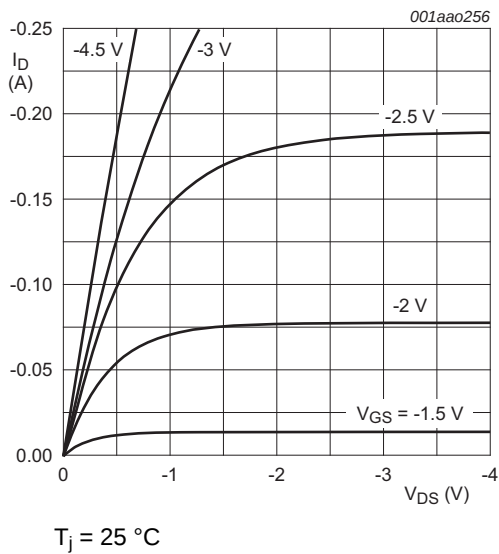


Fig 6. Output characteristics: drain current as a function of drain-source voltage; typical values

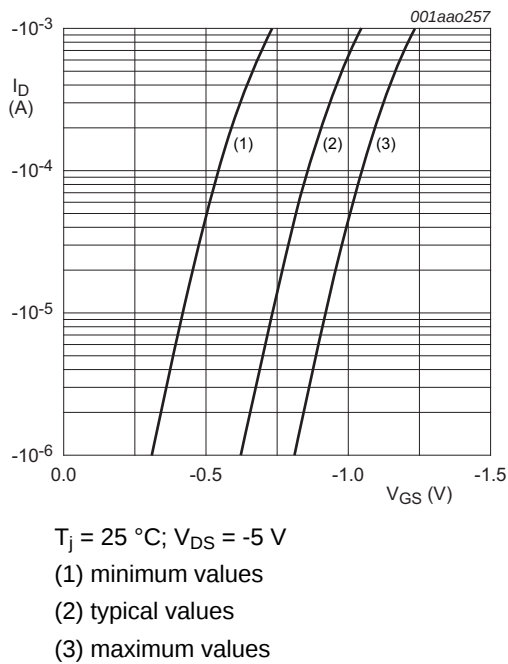


Fig 7. Sub-threshold drain current as a function of gate-source voltage

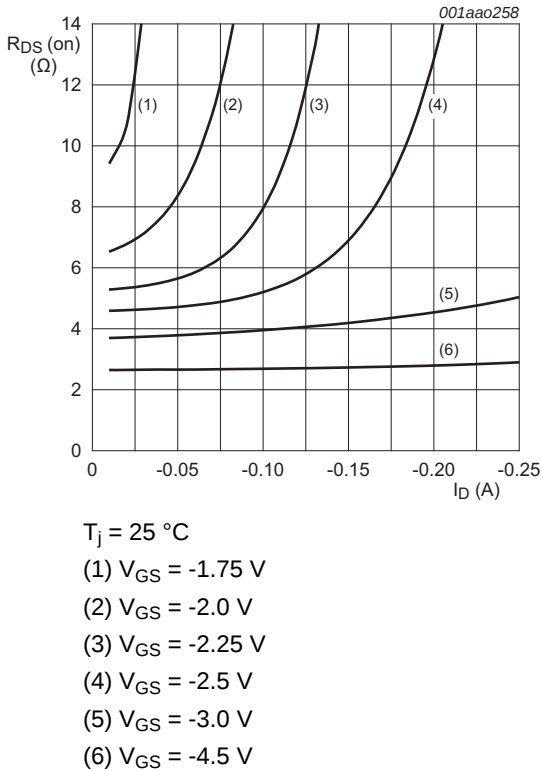


Fig 8. Drain-source on-state resistance as a function of drain current; typical values

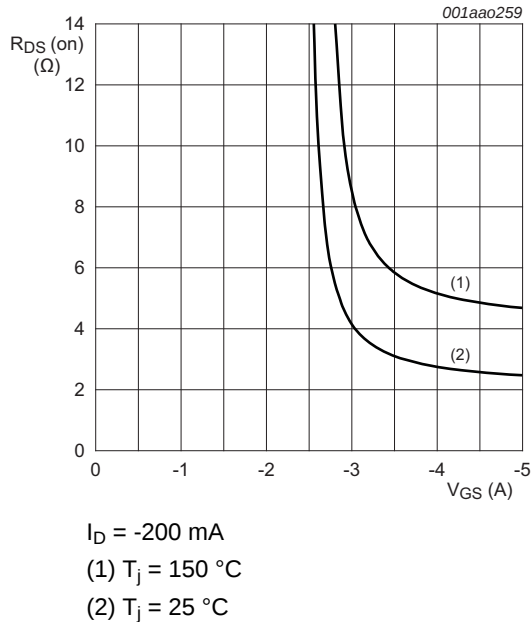
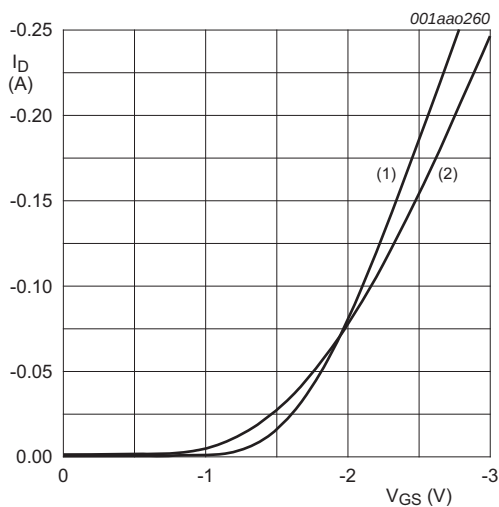


Fig 9. Drain-source on-state resistance as a function of gate-source voltage; typical values



$V_{DS} > I_D \times R_{DS(on)}$   
(1)  $T_j = 25\text{ °C}$   
(2)  $T_j = 150\text{ °C}$

Fig 10. Transfer characteristics: drain current as a function of gate-source voltage; typical values

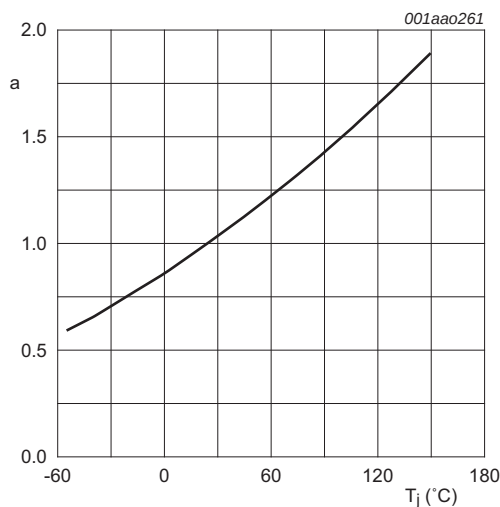
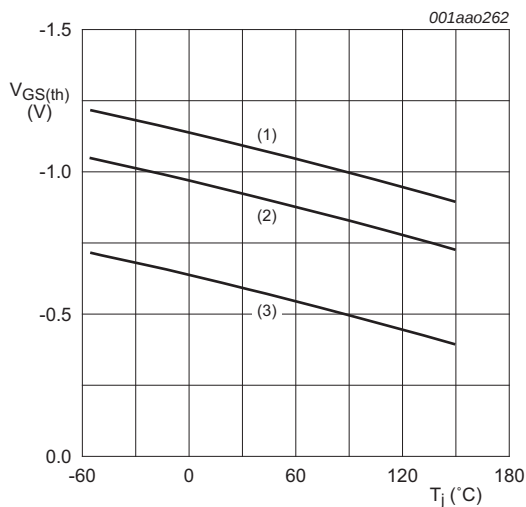
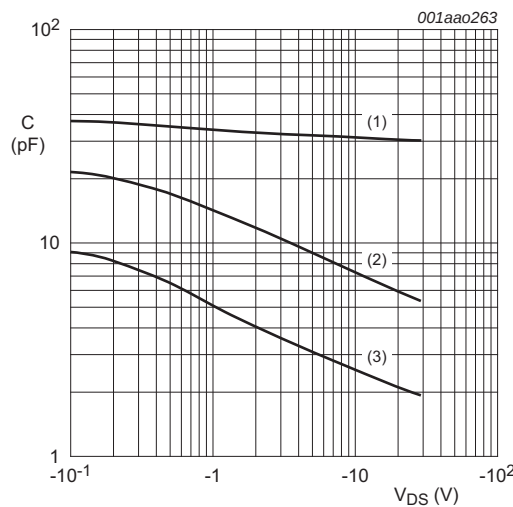


Fig 11. Normalized drain-source on-state resistance as a function of junction temperature; typical values



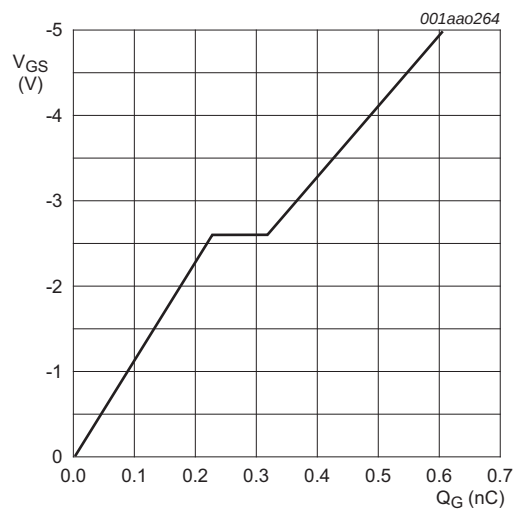
$I_D = -0.25\text{ mA}$ ;  $V_{DS} = V_{GS}$   
(1) maximum values  
(2) typical values  
(3) minimum values

Fig 12. Gate-source threshold voltage as a function of junction temperature



$f = 1\text{ MHz}$ ;  $V_{GS} = 0\text{ V}$   
(1)  $C_{iss}$   
(2)  $C_{oss}$   
(3)  $C_{rss}$

Fig 13. Input, output and reverse transfer capacitances as a function of drain-source voltage; typical values



$I_D = -200\text{ mA}$ ;  $V_{DS} = -15\text{ V}$ ;  $T_{amb} = 25\text{ }^{\circ}\text{C}$

Fig 14. Gate-source voltage as a function of gate charge; typical values

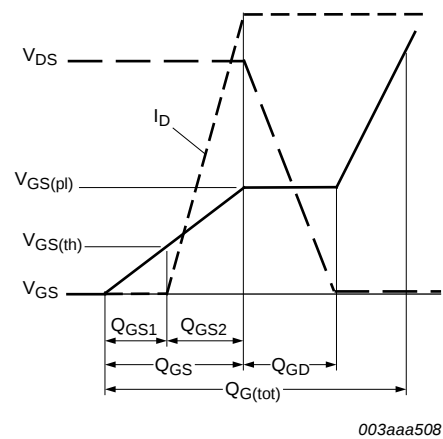
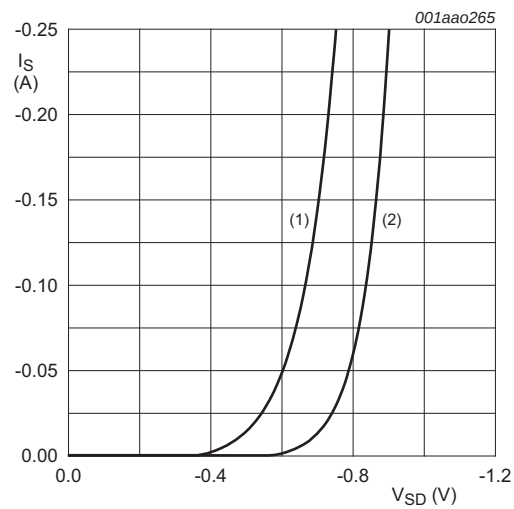


Fig 15. Gate charge waveform definitions



$V_{GS} = 0\text{ V}$   
(1)  $T_j = 150\text{ }^{\circ}\text{C}$   
(2)  $T_j = 25\text{ }^{\circ}\text{C}$

Fig 16. Source current as a function of source-drain voltage; typical values

## 8. Test information

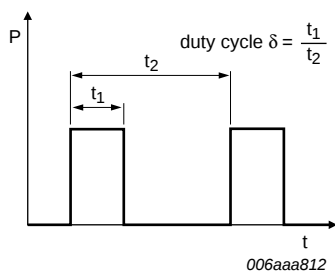


Fig 17. Duty cycle definition

### 8.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101 - Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

9. Package outline

Plastic surface-mounted package; 6 leadsSOT363

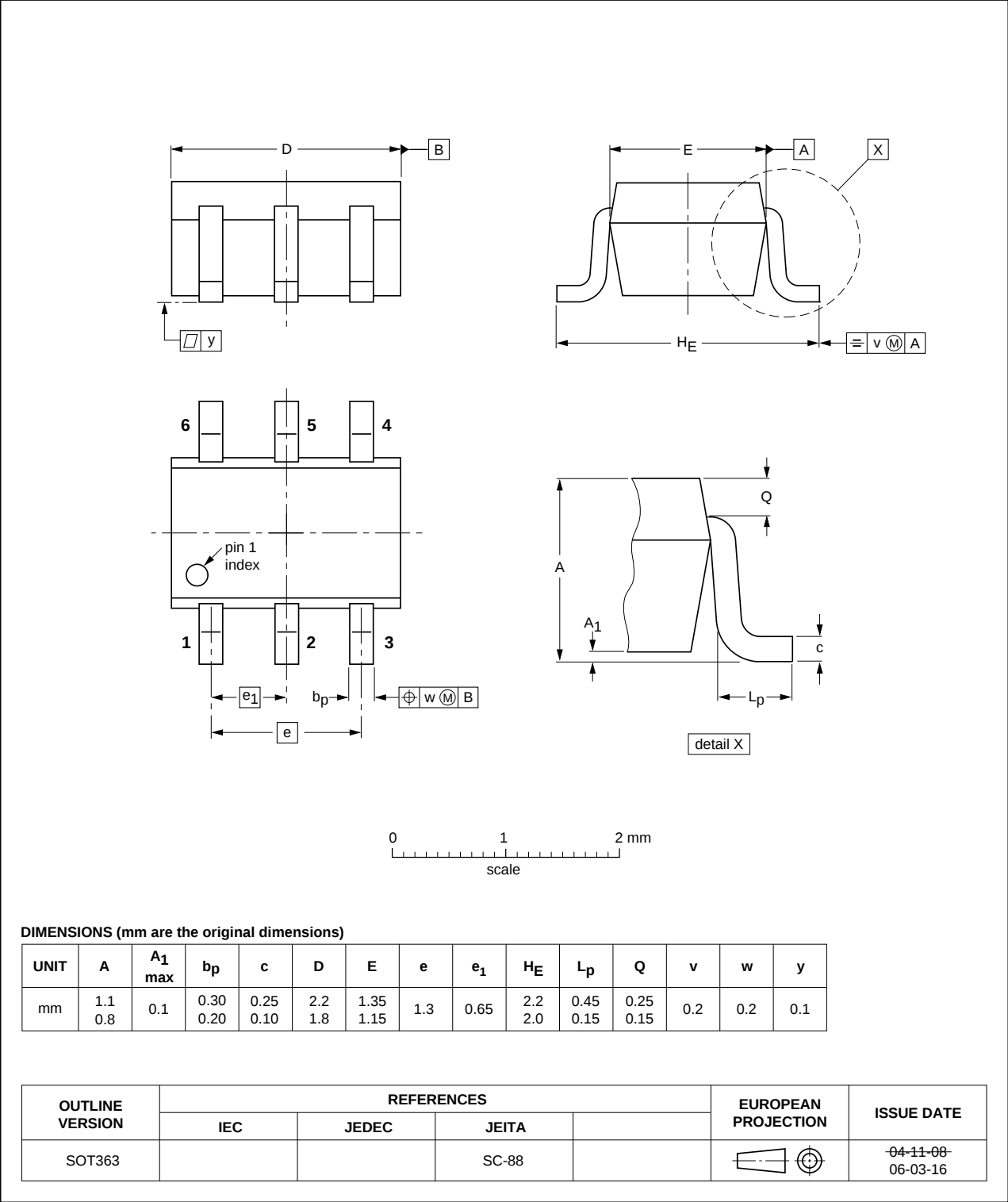
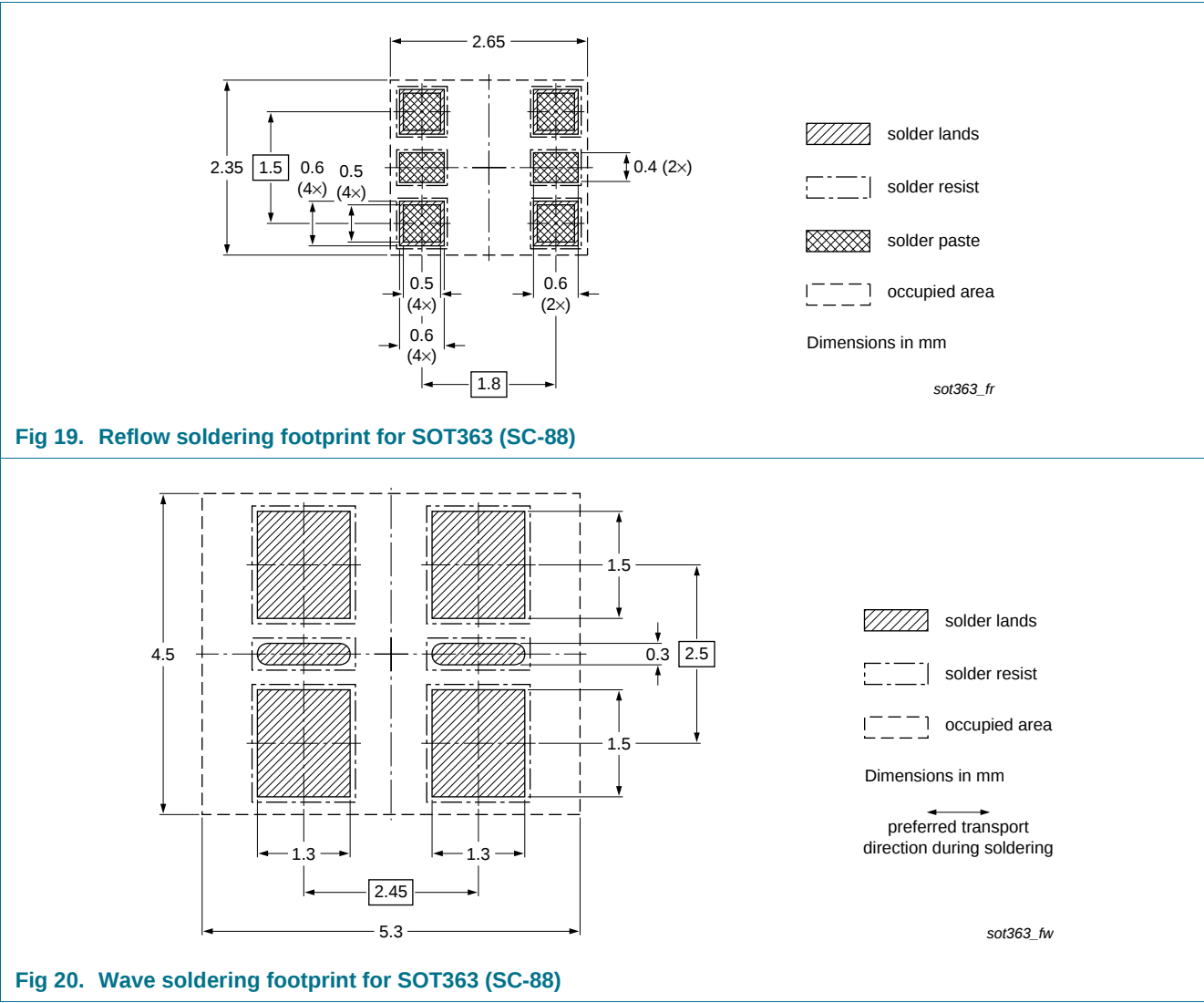


Fig 18. Package outline SOT363 (SC-88)

10. Soldering



## 11. Revision history

Table 8. Revision history

| Document ID    | Release date | Data sheet status  | Change notice | Supersedes |
|----------------|--------------|--------------------|---------------|------------|
| NX3008PBKS v.1 | 20110801     | Product data sheet | -             | -          |

## 12. Legal information

### 12.1 Data sheet status

| Document status <sup>[1] [2]</sup> | Product status <sup>[3]</sup> | 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.                                     |

[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <http://www.nxp.com>.

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## 13. Contact information

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