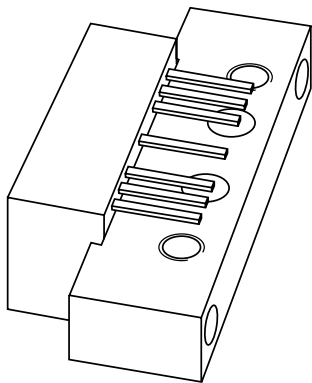


# DATA SHEET



## **BGD802**

860 MHz, 18.5 dB gain power  
doubler amplifier

Product specification  
Supersedes data of 2001 Oct 30

2002 Jan 23



## 860 MHz, 18.5 dB gain power doubler amplifier

## BGD802

## FEATURES

- Excellent linearity
- Extremely low noise
- Excellent return loss properties
- Silicon nitride passivation
- Rugged construction
- Gold metallization ensures excellent reliability.

## APPLICATIONS

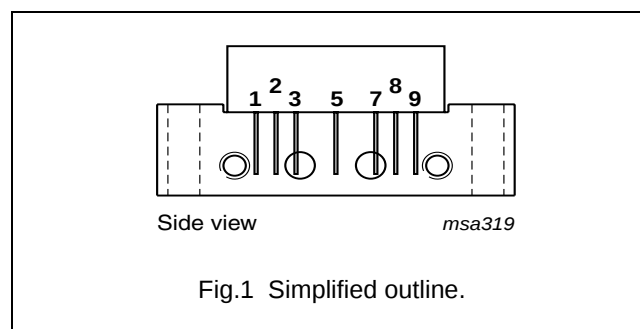
- CATV systems operating in the 40 to 860 MHz frequency range.

## DESCRIPTION

Hybrid amplifier module in a SOT115J package operating at a supply voltage of 24 V (DC).

## PINNING - SOT115J

| PIN  | DESCRIPTION     |
|------|-----------------|
| 1    | input           |
| 2, 3 | common          |
| 5    | +V <sub>B</sub> |
| 7, 8 | common          |
| 9    | output          |



## QUICK REFERENCE DATA

| SYMBOL           | PARAMETER                      | CONDITIONS            | MIN. | MAX. | UNIT |
|------------------|--------------------------------|-----------------------|------|------|------|
| G <sub>p</sub>   | power gain                     | f = 50 MHz            | 18   | 19   | dB   |
|                  |                                | f = 860 MHz           | 18.5 | —    | dB   |
| I <sub>tot</sub> | total current consumption (DC) | V <sub>B</sub> = 24 V | —    | 410  | mA   |

## LIMITING VALUES

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

| SYMBOL           | PARAMETER                           | MIN. | MAX. | UNIT |
|------------------|-------------------------------------|------|------|------|
| V <sub>B</sub>   | supply voltage                      | —    | 25   | V    |
| V <sub>i</sub>   | RF input voltage                    | —    | 65   | dBmV |
| T <sub>stg</sub> | storage temperature                 | −40  | +100 | °C   |
| T <sub>mb</sub>  | operating mounting base temperature | −20  | +100 | °C   |

## 860 MHz, 18.5 dB gain power doubler amplifier

BGD802

## CHARACTERISTICS

**Table 1** Bandwidth 40 to 860 MHz;  $V_B = 24$  V;  $T_{case} = 35$  °C;  $Z_S = Z_L = 75$   $\Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                   | MIN. | TYP.      | MAX.      | UNIT |
|-----------|-----------------------------------|--------------------------------------------------------------|------|-----------|-----------|------|
| $G_p$     | power gain                        | $f = 50$ MHz                                                 | 18   | 18.5      | 19        | dB   |
|           |                                   | $f = 860$ MHz                                                | 18.5 | 19.5      | –         | dB   |
| SL        | slope cable equivalent            | $f = 40$ to 860 MHz                                          | 0.2  | 1.1       | 2         | dB   |
| FL        | flatness of frequency response    | $f = 40$ to 860 MHz                                          | –    | $\pm 0.2$ | $\pm 0.5$ | dB   |
| $S_{11}$  | input return losses               | $f = 40$ to 80 MHz                                           | 20   | 35        | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                          | 18.5 | 31        | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                         | 17   | 27        | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                         | 15.5 | 22        | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                         | 14   | 20        | –         | dB   |
| $S_{22}$  | output return losses              | $f = 40$ to 80 MHz                                           | 20   | 29.5      | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                          | 18.5 | 29        | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                         | 17   | 25.5      | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                         | 15.5 | 23        | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                         | 14   | 22        | –         | dB   |
| $S_{21}$  | phase response                    | $f = 50$ MHz                                                 | –45  | –         | +45       | deg  |
| CTB       | composite triple beat             | 49 channels flat; $V_o = 47$ dBmV;<br>measured at 859.25 MHz | –    | –66       | –63       | dB   |
| $X_{mod}$ | cross modulation                  | 49 channels flat; $V_o = 47$ dBmV;<br>measured at 55.25 MHz  | –    | –65       | –62       | dB   |
| CSO       | composite second order distortion | 49 channels flat; $V_o = 47$ dBmV;<br>measured at 860.5 MHz  | –    | –67.5     | –60       | dB   |
| $d_2$     | second order distortion           | note 1                                                       | –    | –75       | –69       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60$ dB; note 2                                    | 61.5 | 63.5      | –         | dBmV |
| NF        | noise figure                      | $f = 50$ MHz                                                 | –    | 4.5       | 5.5       | dB   |
|           |                                   | $f = 550$ MHz                                                | –    | –         | 6         | dB   |
|           |                                   | $f = 650$ MHz                                                | –    | –         | 7         | dB   |
|           |                                   | $f = 750$ MHz                                                | –    | –         | 7.5       | dB   |
|           |                                   | $f = 860$ MHz                                                | –    | 6.5       | 9         | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                       | –    | 395       | 410       | mA   |

## Notes

- $f_p = 55.25$  MHz;  $V_p = 44$  dBmV;  
 $f_q = 805.25$  MHz;  $V_q = 44$  dBmV;  
measured at  $f_p + f_q = 860.5$  MHz.
- Measured according to DIN45004B:  
 $f_p = 851.25$  MHz;  $V_p = V_o$ ;  
 $f_q = 858.25$  MHz;  $V_q = V_o - 6$  dB;  
 $f_r = 860.25$  MHz;  $V_r = V_o - 6$  dB;  
measured at  $f_p + f_q - f_r = 849.25$  MHz.
- The module normally operates at  $V_B = 24$  V, but is able to withstand supply transients up to 30 V.

## 860 MHz, 18.5 dB gain power doubler amplifier

## BGD802

**Table 2** Bandwidth 40 to 860 MHz;  $V_B = 24$  V;  $T_{case} = 30$  °C;  $Z_S = Z_L = 75 \Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                       | MIN. | TYP.      | MAX.      | UNIT |
|-----------|-----------------------------------|------------------------------------------------------------------|------|-----------|-----------|------|
| $G_p$     | power gain                        | $f = 50$ MHz                                                     | 18   | 18.5      | 19        | dB   |
|           |                                   | $f = 860$ MHz                                                    | 18.5 | 19.5      | –         | dB   |
| SL        | slope cable equivalent            | $f = 40$ to 860 MHz                                              | 0.2  | 1.1       | 2         | dB   |
| FL        | flatness of frequency response    | $f = 40$ to 860 MHz                                              | –    | $\pm 0.2$ | $\pm 0.5$ | dB   |
| $S_{11}$  | input return losses               | $f = 40$ to 80 MHz                                               | 20   | 35        | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                              | 18.5 | 31        | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                             | 17   | 27        | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                             | 15.5 | 22        | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                             | 14   | 20        | –         | dB   |
| $S_{22}$  | output return losses              | $f = 40$ to 80 MHz                                               | 20   | 29.5      | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                              | 18.5 | 29        | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                             | 17   | 25.5      | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                             | 15.5 | 23        | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                             | 14   | 22        | –         | dB   |
| $S_{21}$  | phase response                    | $f = 50$ MHz                                                     | –45  | –         | +45       | deg  |
| CTB       | composite triple beat             | 129 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 859.25 MHz | –    | –56.5     | –54       | dB   |
| $X_{mod}$ | cross modulation                  | 129 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 55.25 MHz  | –    | –61       | –59       | dB   |
| CSO       | composite second order distortion | 129 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 860.5 MHz  | –    | –64.5     | –56       | dB   |
| $d_2$     | second order distortion           | note 1                                                           | –    | –75       | –69       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60$ dB; note 2                                        | 61.5 | 63        | –         | dBmV |
| NF        | noise figure                      | see Table 1                                                      | –    | –         | –         | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                           | –    | 395       | 410       | mA   |

**Notes**

- $f_p = 55.25$  MHz;  $V_p = 44$  dBmV;  
 $f_q = 805.25$  MHz;  $V_q = 44$  dBmV;  
measured at  $f_p + f_q = 860.5$  MHz.
- Measured according to DIN45004B:  
 $f_p = 851.25$  MHz;  $V_p = V_o$ ;  
 $f_q = 858.25$  MHz;  $V_q = V_o - 6$  dB;  
 $f_r = 860.25$  MHz;  $V_r = V_o - 6$  dB;  
measured at  $f_p + f_q - f_r = 849.25$  MHz.
- The module normally operates at  $V_B = 24$  V, but is able to withstand supply transients up to 30 V.

## 860 MHz, 18.5 dB gain power doubler amplifier

## BGD802

**Table 3** Bandwidth 40 to 750 MHz;  $V_B = 24$  V;  $T_{case} = 30$  °C;  $Z_S = Z_L = 75 \Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                       | MIN. | TYP.  | MAX.      | UNIT |
|-----------|-----------------------------------|------------------------------------------------------------------|------|-------|-----------|------|
| $G_p$     | power gain                        | $f = 50$ MHz                                                     | 18   | 18.5  | 19        | dB   |
|           |                                   | $f = 750$ MHz                                                    | 18.5 | 19.4  | –         | dB   |
| SL        | slope cable equivalent            | $f = 40$ to 750 MHz                                              | 0.2  | –     | 2         | dB   |
| FL        | flatness of frequency response    | $f = 40$ to 750 MHz                                              | –    | –     | $\pm 0.5$ | dB   |
| $S_{11}$  | input return losses               | $f = 40$ to 80 MHz                                               | 20   | 35    | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                              | 18.5 | 31    | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                             | 17   | 27    | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                             | 15.5 | 22    | –         | dB   |
|           |                                   | $f = 640$ to 750 MHz                                             | 14   | 20    | –         | dB   |
| $S_{22}$  | output return losses              | $f = 40$ to 80 MHz                                               | 20   | 29.5  | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                              | 18.5 | 29    | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                             | 17   | 25.5  | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                             | 15.5 | 23    | –         | dB   |
|           |                                   | $f = 640$ to 750 MHz                                             | 14   | 22    | –         | dB   |
| $S_{21}$  | phase response                    | $f = 50$ MHz                                                     | –45  | –     | +45       | deg  |
| CTB       | composite triple beat             | 110 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 745.25 MHz | –    | –60.5 | –58       | dB   |
| $X_{mod}$ | cross modulation                  | 110 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 55.25 MHz  | –    | –62.5 | –60       | dB   |
| CSO       | composite second order distortion | 110 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 746.5 MHz  | –    | –66   | –60       | dB   |
| $d_2$     | second order distortion           | note 1                                                           | –    | –     | –72       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60$ dB; note 2                                        | 64   | –     | –         | dBmV |
| NF        | noise figure                      | see Table 1                                                      | –    | –     | –         | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                           | –    | 395   | 410       | mA   |

**Notes**

- $f_p = 55.25$  MHz;  $V_p = 44$  dBmV;  
 $f_q = 691.25$  MHz;  $V_q = 44$  dBmV;  
measured at  $f_p + f_q = 746.5$  MHz.
- Measured according to DIN45004B:  
 $f_p = 740.25$  MHz;  $V_p = V_o$ ;  
 $f_q = 747.25$  MHz;  $V_q = V_o - 6$  dB;  
 $f_r = 749.25$  MHz;  $V_r = V_o - 6$  dB;  
measured at  $f_p + f_q - f_r = 738.25$  MHz.
- The module normally operates at  $V_B = 24$  V, but is able to withstand supply transients up to 30 V.

## 860 MHz, 18.5 dB gain power doubler amplifier

## BGD802

**Table 4** Bandwidth 40 to 550 MHz;  $V_B = 24$  V;  $T_{case} = 30$  °C;  $Z_S = Z_L = 75$   $\Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                      | MIN. | TYP. | MAX.      | UNIT |
|-----------|-----------------------------------|-----------------------------------------------------------------|------|------|-----------|------|
| $G_p$     | power gain                        | $f = 50$ MHz                                                    | 18   | 18.5 | 19        | dB   |
|           |                                   | $f = 550$ MHz                                                   | 18.5 | 19.3 | –         | dB   |
| SL        | slope cable equivalent            | $f = 40$ to 550 MHz                                             | 0.2  | –    | 2         | dB   |
| FL        | flatness of frequency response    | $f = 40$ to 550 MHz                                             | –    | –    | $\pm 0.3$ | dB   |
| $S_{11}$  | input return losses               | $f = 40$ to 80 MHz                                              | 20   | 35   | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                             | 18.5 | 31   | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                            | 17   | 27   | –         | dB   |
|           |                                   | $f = 320$ to 550 MHz                                            | 16   | 22   | –         | dB   |
| $S_{22}$  | input return losses               | $f = 40$ to 80 MHz                                              | 20   | 29.5 | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                             | 18.5 | 29   | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                            | 17   | 25.5 | –         | dB   |
|           |                                   | $f = 320$ to 550 MHz                                            | 16   | 23   | –         | dB   |
| $S_{21}$  | phase response                    | $f = 50$ MHz                                                    | –45  | –    | +45       | deg  |
| CTB       | composite triple beat             | 77 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 547.25 MHz | –    | –67  | –65       | dB   |
| $X_{mod}$ | cross modulation                  | 77 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 55.25 MHz  | –    | –66  | –63       | dB   |
| CSO       | composite second order distortion | 77 channels flat;<br>$V_o = 44$ dBmV;<br>measured at 548.5 MHz  | –    | –67  | –63       | dB   |
| $d_2$     | second order distortion           | note 1                                                          | –    | –    | –72       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60$ dB; note 2                                       | 65   | –    | –         | dBmV |
| NF        | noise figure                      | see Table 1                                                     | –    | –    | –         | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                          | –    | 395  | 410       | mA   |

**Notes**

- $f_p = 55.25$  MHz;  $V_p = 44$  dBmV;  
 $f_q = 493.25$  MHz;  $V_q = 44$  dBmV;  
measured at  $f_p + f_q = 548.5$  MHz.
- Measured according to DIN45004B:  
 $f_p = 540.25$  MHz;  $V_p = V_o$ ;  
 $f_q = 547.25$  MHz;  $V_q = V_o - 6$  dB;  
 $f_r = 549.25$  MHz;  $V_r = V_o - 6$  dB;  
measured at  $f_p + f_q - f_r = 538.25$  MHz.
- The module normally operates at  $V_B = 24$  V, but is able to withstand supply transients up to 30 V.

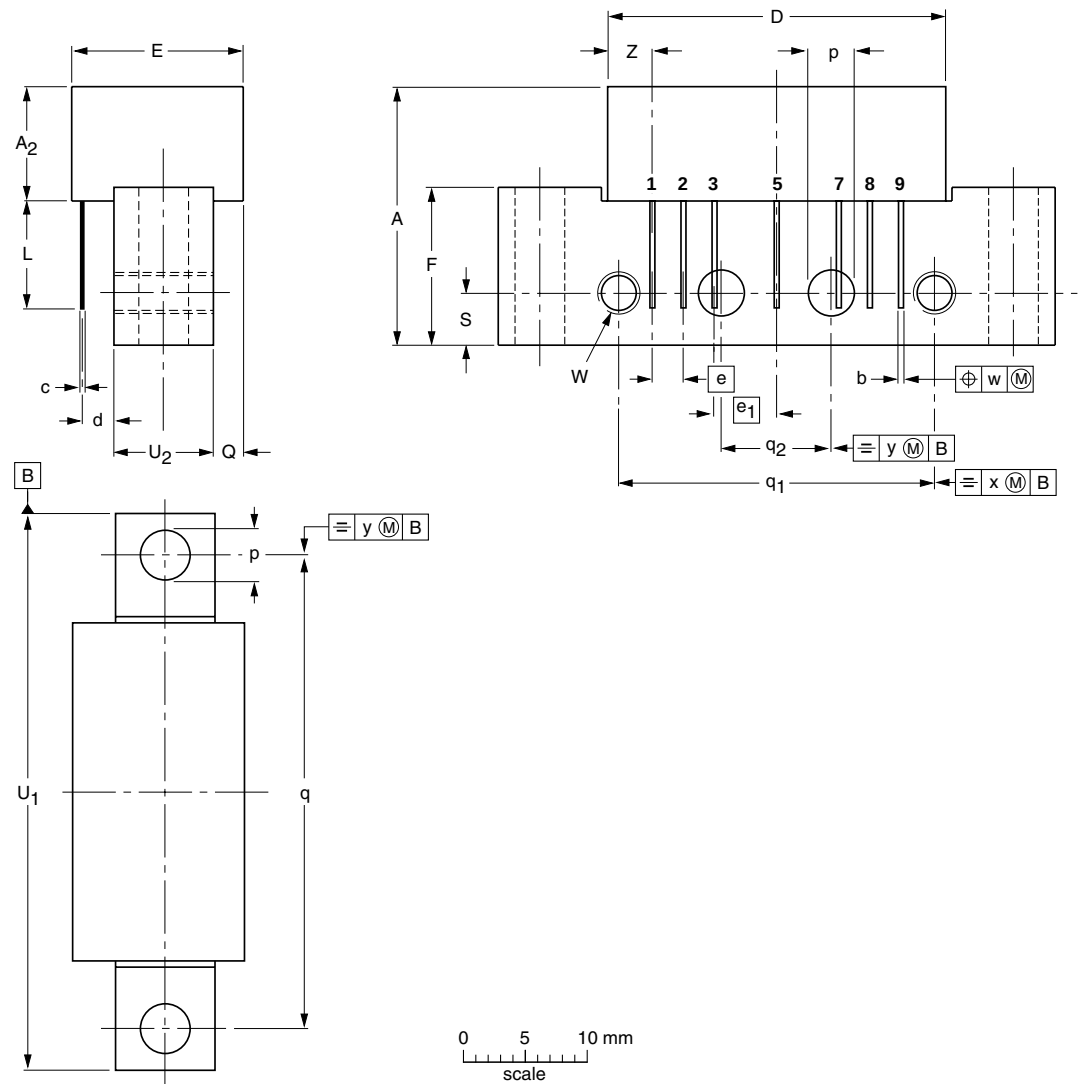
860 MHz, 18.5 dB gain power doubler amplifier

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PACKAGE OUTLINE

Rectangular single-ended package; aluminium flange; 2 vertical mounting holes;  
2 x 6-32 UNC and 2 extra horizontal mounting holes; 7 gold-plated in-line leads

SOT115J



DIMENSIONS (mm are the original dimensions)

| UNIT | A<br>max. | A <sub>2</sub><br>max. | b            | c    | D<br>max. | d            | E<br>max. | e    | e <sub>1</sub> | F    | L<br>min. | p            | Q<br>max. | q    | q <sub>1</sub> | q <sub>2</sub> | S   | U <sub>1</sub> | U <sub>2</sub> | W           | w    | x   | y   | Z<br>max. |
|------|-----------|------------------------|--------------|------|-----------|--------------|-----------|------|----------------|------|-----------|--------------|-----------|------|----------------|----------------|-----|----------------|----------------|-------------|------|-----|-----|-----------|
| mm   | 20.8      | 9.5                    | 0.51<br>0.38 | 0.25 | 27.2      | 2.04<br>2.54 | 13.75     | 2.54 | 5.08           | 12.7 | 8.8       | 4.15<br>3.85 | 2.4       | 38.1 | 25.4           | 10.2           | 4.2 | 44.75<br>44.25 | 8.2<br>7.8     | 6-32<br>UNC | 0.25 | 0.7 | 0.1 | 3.8       |

| OUTLINE<br>VERSION | REFERENCES |       |       |  | EUROPEAN<br>PROJECTION | ISSUE DATE           |
|--------------------|------------|-------|-------|--|------------------------|----------------------|
|                    | IEC        | JEDEC | JEITA |  |                        |                      |
| SOT115J            |            |       |       |  |                        | 04-02-04<br>10-06-18 |

## 860 MHz, 18.5 dB gain power doubler amplifier

BGD802

## DATA SHEET STATUS

| DOCUMENT STATUS <sup>(1)</sup> | PRODUCT STATUS <sup>(2)</sup> | DEFINITION                                                                            |
|--------------------------------|-------------------------------|---------------------------------------------------------------------------------------|
| Objective data sheet           | Development                   | This document contains data from the objective specification for product development. |
| Preliminary data sheet         | Qualification                 | This document contains data from the preliminary specification.                       |
| Product data sheet             | Production                    | This document contains the product specification.                                     |

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860 MHz, 18.5 dB gain power doubler amplifier

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BGD802

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System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

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## **Contact information**

For additional information please visit: <http://www.nxp.com>

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Printed in The Netherlands

613518/07/pp10

Date of release: 2002 Jan 23

Document order number: 9397 750 09191

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