

# DATA SHEET

**BGY887B**

CATV amplifier module

Product specification  
Supersedes data of February 1995

1997 Apr 15



## CATV amplifier module

## BGY887B

## FEATURES

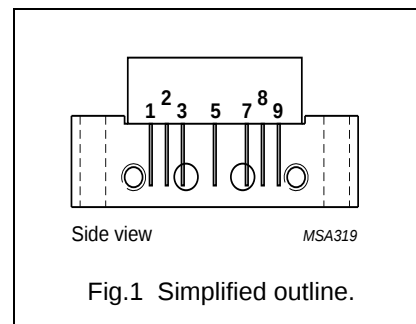
- Excellent linearity
- Extremely low noise
- High gain
- Excellent return loss properties.

## APPLICATIONS

- Single-module line extender in CATV systems operating in the 40 to 860 MHz frequency range.

## PINNING - SOT115J

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



## DESCRIPTION

Hybrid amplifier module in a SOT115J package operating with a voltage supply of 24 V (DC). This high gain module consists of two cascaded stages, both in cascode configuration.

## QUICK REFERENCE DATA

| SYMBOL           | PARAMETER                      | CONDITIONS            | MIN. | MAX. | UNIT |
|------------------|--------------------------------|-----------------------|------|------|------|
| G <sub>p</sub>   | power gain                     | f = 50 MHz            | 28.5 | 29.5 | dB   |
|                  |                                | f = 860 MHz           | 29   | –    | dB   |
| I <sub>tot</sub> | total current consumption (DC) | V <sub>B</sub> = 24 V | –    | 340  | mA   |

## LIMITING VALUES

In accordance with the Absolute Maximum Rating System (IEC 134).

| SYMBOL           | PARAMETER                           | MIN. | MAX. | UNIT |
|------------------|-------------------------------------|------|------|------|
| V <sub>i</sub>   | RF input voltage                    | –    | 55   | dBmV |
| T <sub>stg</sub> | storage temperature                 | –40  | +100 | °C   |
| T <sub>mb</sub>  | operating mounting base temperature | –20  | +100 | °C   |

## CATV amplifier module

## BGY887B

## CHARACTERISTICS

**Table 1** Bandwidth 40 to 860 MHz;  $V_B = 24$  V;  $T_{mb} = 30$  °C;  $Z_S = Z_L = 75$   $\Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                | MIN. | MAX.      | UNIT |
|-----------|-----------------------------------|-----------------------------------------------------------|------|-----------|------|
| $G_p$     | power gain                        | $f = 50$ MHz                                              | 28.5 | 29.5      | dB   |
|           |                                   | $f = 860$ MHz                                             | 29   | –         | dB   |
| SL        | slope cable equivalent            | $f = 40$ to 860 MHz                                       | 0.5  | 2.5       | dB   |
| FL        | flatness of frequency response    | $f = 40$ to 860 MHz                                       | –    | $\pm 0.5$ | dB   |
| $S_{11}$  | input return losses               | $f = 40$ to 80 MHz                                        | 20   | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                       | 18.5 | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                      | 17   | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                      | 15.5 | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                      | 14   | –         | dB   |
| $S_{22}$  | output return losses              | $f = 40$ to 80 MHz                                        | 20   | –         | dB   |
|           |                                   | $f = 80$ to 160 MHz                                       | 18.5 | –         | dB   |
|           |                                   | $f = 160$ to 320 MHz                                      | 17   | –         | dB   |
|           |                                   | $f = 320$ to 640 MHz                                      | 15.5 | –         | dB   |
|           |                                   | $f = 640$ to 860 MHz                                      | 14   | –         | dB   |
| CTB       | composite triple beat             | 49 channels flat; $V_o = 44$ dBmV; measured at 859.25 MHz | –    | –60       | dB   |
| $X_{mod}$ | cross modulation                  | 49 channels flat; $V_o = 44$ dBmV; measured at 55.25 MHz  | –    | –60       | dB   |
| CSO       | composite second order distortion | 49 channels flat; $V_o = 44$ dBmV; measured at 860.5 MHz  | –    | –60       | dB   |
| $d_2$     | second order distortion           | note 1                                                    | –    | –70       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60$ dB; note 2                                 | 58.5 | –         | dBmV |
| F         | noise figure                      | $f = 50$ MHz                                              | –    | 5         | dB   |
|           |                                   | $f = 550$ MHz                                             | –    | 5.5       | dB   |
|           |                                   | $f = 600$ MHz                                             | –    | 5.5       | dB   |
|           |                                   | $f = 650$ MHz                                             | –    | 5.5       | dB   |
|           |                                   | $f = 750$ MHz                                             | –    | 6         | dB   |
|           |                                   | $f = 860$ MHz                                             | –    | 6.5       | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                    | –    | 340       | 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.

## CATV amplifier module

## BGY887B

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

| SYMBOL    | PARAMETER                         | CONDITIONS                                                               | MIN. | MAX.      | UNIT |
|-----------|-----------------------------------|--------------------------------------------------------------------------|------|-----------|------|
| $G_p$     | power gain                        | $f = 50\text{ MHz}$                                                      | 28.5 | 29.5      | dB   |
|           |                                   | $f = 860\text{ MHz}$                                                     | 29   | –         | dB   |
| SL        | slope cable equivalent            | $f = 40\text{ to }860\text{ MHz}$                                        | 0.5  | 2.5       | dB   |
| FL        | flatness of frequency response    | $f = 40\text{ to }860\text{ MHz}$                                        | –    | $\pm 0.5$ | dB   |
| $S_{11}$  | input return losses               | $f = 40\text{ to }80\text{ MHz}$                                         | 20   | –         | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                        | 18.5 | –         | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                       | 17   | –         | dB   |
|           |                                   | $f = 320\text{ to }640\text{ MHz}$                                       | 15.5 | –         | dB   |
|           |                                   | $f = 640\text{ to }860\text{ MHz}$                                       | 14   | –         | dB   |
| $S_{22}$  | output return losses              | $f = 40\text{ to }80\text{ MHz}$                                         | 20   | –         | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                        | 18.5 | –         | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                       | 17   | –         | dB   |
|           |                                   | $f = 320\text{ to }640\text{ MHz}$                                       | 15.5 | –         | dB   |
|           |                                   | $f = 640\text{ to }860\text{ MHz}$                                       | 14   | –         | dB   |
| CTB       | composite triple beat             | 129 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 859.25 MHz | –    | –46       | dB   |
| $X_{mod}$ | cross modulation                  | 129 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 55.25 MHz  | –    | –52       | dB   |
| CSO       | composite second order distortion | 129 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 860.5 MHz  | –    | –53       | dB   |
| $d_2$     | second order distortion           | note 1                                                                   | –    | –70       | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60\text{ dB}$ ; note 2                                        | 58.5 | –         | dBmV |
| F         | noise figure                      | see Table 1                                                              | –    | –         | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                                   | –    | 340       | mA   |

**Notes**

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

## CATV amplifier module

## BGY887B

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

| SYMBOL    | PARAMETER                         | CONDITIONS                                                               | MIN. | MAX.       | UNIT |
|-----------|-----------------------------------|--------------------------------------------------------------------------|------|------------|------|
| $G_p$     | power gain                        | $f = 50\text{ MHz}$                                                      | 28.5 | 29.5       | dB   |
|           |                                   | $f = 750\text{ MHz}$                                                     | 29   | –          | dB   |
| SL        | slope cable equivalent            | $f = 40\text{ to }750\text{ MHz}$                                        | 0.2  | 2.2        | dB   |
| FL        | flatness of frequency response    | $f = 40\text{ to }750\text{ MHz}$                                        | –    | $\pm 0.45$ | dB   |
| $S_{11}$  | input return losses               | $f = 40\text{ to }80\text{ MHz}$                                         | 20   | –          | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                        | 18.5 | –          | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                       | 17   | –          | dB   |
|           |                                   | $f = 320\text{ to }640\text{ MHz}$                                       | 15.5 | –          | dB   |
|           |                                   | $f = 640\text{ to }750\text{ MHz}$                                       | 14   | –          | dB   |
| $S_{22}$  | output return losses              | $f = 40\text{ to }80\text{ MHz}$                                         | 20   | –          | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                        | 18.5 | –          | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                       | 17   | –          | dB   |
|           |                                   | $f = 320\text{ to }640\text{ MHz}$                                       | 15.5 | –          | dB   |
|           |                                   | $f = 640\text{ to }750\text{ MHz}$                                       | 14   | –          | dB   |
| CTB       | composite triple beat             | 110 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 745.25 MHz | –    | –50        | dB   |
| $X_{mod}$ | cross modulation                  | 110 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 55.25 MHz  | –    | –54        | dB   |
| CSO       | composite second order distortion | 110 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 746.5 MHz  | –    | –56        | dB   |
| $d_2$     | second order distortion           | note 1                                                                   | –    | –70        | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60\text{ dB}$ ; note 2                                        | 59   | –          | dBmV |
| F         | noise figure                      | see Table 1                                                              | –    | –          | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                                   | –    | 340        | mA   |

**Notes**

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

## CATV amplifier module

## BGY887B

**Table 4** Bandwidth 40 to 600 MHz;  $V_B = 24\text{ V}$ ;  $T_{mb} = 30\text{ °C}$ ;  $Z_S = Z_L = 75\text{ }\Omega$ 

| SYMBOL    | PARAMETER                         | CONDITIONS                                                              | MIN. | MAX.       | UNIT |
|-----------|-----------------------------------|-------------------------------------------------------------------------|------|------------|------|
| $G_p$     | power gain                        | $f = 50\text{ MHz}$                                                     | 28.5 | 29.5       | dB   |
|           |                                   | $f = 600\text{ MHz}$                                                    | 29   | –          | dB   |
| SL        | slope cable equivalent            | $f = 40\text{ to }600\text{ MHz}$                                       | –    | 2          | dB   |
| FL        | flatness of frequency response    | $f = 40\text{ to }600\text{ MHz}$                                       | –    | $\pm 0.35$ | dB   |
| $S_{11}$  | input return losses               | $f = 40\text{ to }80\text{ MHz}$                                        | 20   | –          | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                       | 18.5 | –          | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                      | 17   | –          | dB   |
|           |                                   | $f = 320\text{ to }600\text{ MHz}$                                      | 16   | –          | dB   |
| $S_{22}$  | output return losses              | $f = 40\text{ to }80\text{ MHz}$                                        | 20   | –          | dB   |
|           |                                   | $f = 80\text{ to }160\text{ MHz}$                                       | 18.5 | –          | dB   |
|           |                                   | $f = 160\text{ to }320\text{ MHz}$                                      | 17   | –          | dB   |
|           |                                   | $f = 320\text{ to }600\text{ MHz}$                                      | 16   | –          | dB   |
| CTB       | composite triple beat             | 85 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 595.25 MHz | –    | –55        | dB   |
| $X_{mod}$ | cross modulation                  | 85 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 55.25 MHz  | –    | –56        | dB   |
| CSO       | composite second order distortion | 85 channels flat;<br>$V_o = 44\text{ dBmV}$ ;<br>measured at 596.5 MHz  | –    | –60        | dB   |
| $d_2$     | second order distortion           | note 1                                                                  | –    | –72        | dB   |
| $V_o$     | output voltage                    | $d_{im} = -60\text{ dB}$ ; note 2                                       | 61   | –          | dBmV |
| F         | noise figure                      | see Table 1                                                             | –    | –          | dB   |
| $I_{tot}$ | total current consumption (DC)    | note 3                                                                  | –    | 340        | mA   |

**Notes**

- $f_p = 55.25\text{ MHz}$ ;  $V_p = 44\text{ dBmV}$ ;  
 $f_q = 541.25\text{ MHz}$ ;  $V_q = 44\text{ dBmV}$ ;  
measured at  $f_p + f_q = 596.5\text{ MHz}$ .
- Measured according to DIN45004B:  
 $f_p = 590.25\text{ MHz}$ ;  $V_p = V_o$ ;  
 $f_q = 597.25\text{ MHz}$ ;  $V_q = V_o - 6\text{ dB}$ ;  
 $f_r = 599.25\text{ MHz}$ ;  $V_r = V_o - 6\text{ dB}$ ;  
measured at  $f_p + f_q - f_r = 588.25\text{ MHz}$ .
- The module normally operates at  $V_B = 24\text{ V}$ , but is able to withstand supply transients up to 30 V.

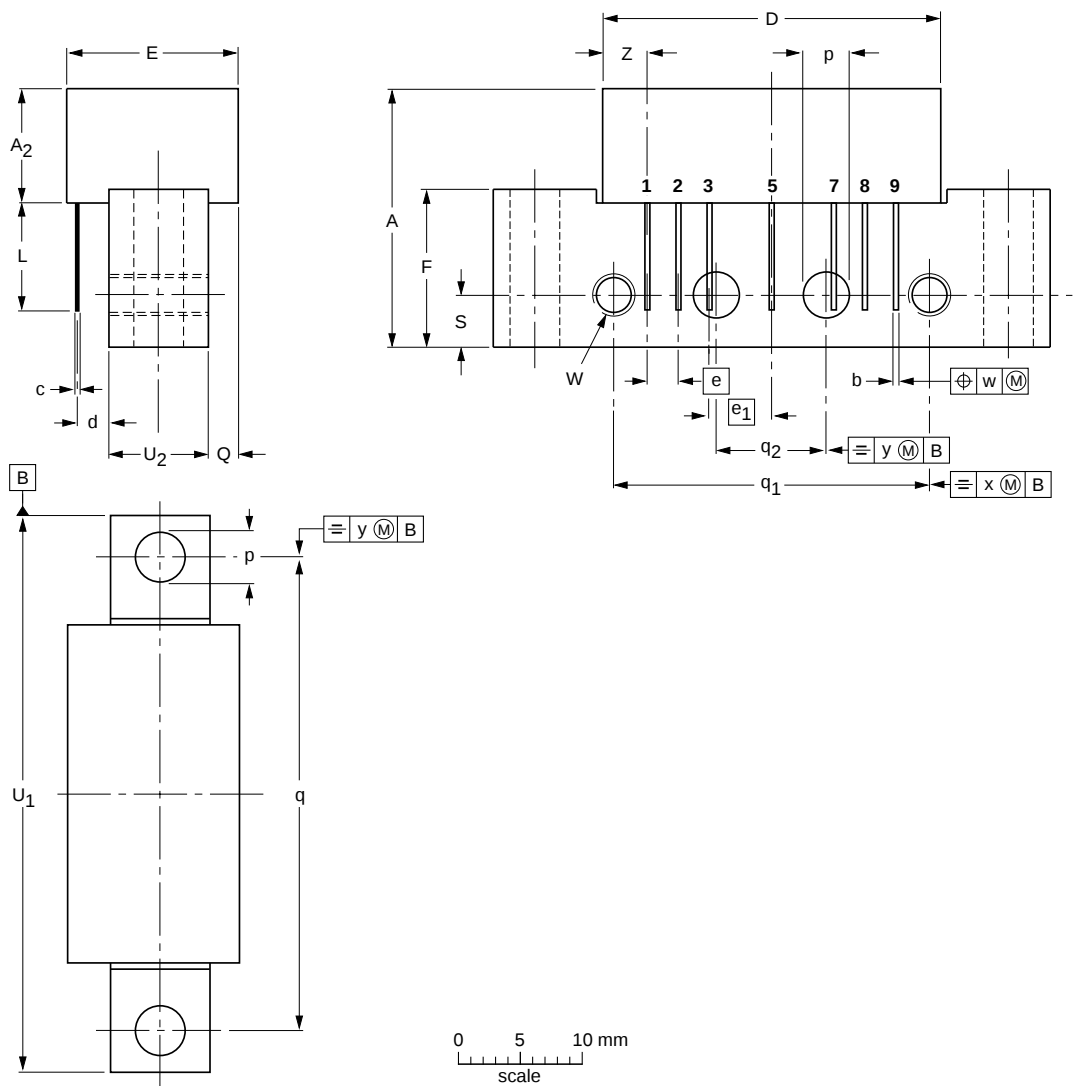
CATV amplifier module

BGY887B

PACKAGE OUTLINE

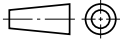
Rectangular single-ended package; aluminium flange; 2 vertical mounting holes;  
2 x 6-32 UNC and 2 extra horizontal mounting holes; 7 gold-plated in-line leads

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 |

## CATV amplifier module

BGY887B

## 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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