



BGY885A

860 MHz, 18.5 dB push-pull amplifier

Rev. 7 — 19 September 2011

Product data sheet

1. Product profile

1.1 General description

Hybrid amplifier module for CATV systems operating over a frequency range of 40 MHz to 860 MHz with a supply voltage of 24 V (DC).

CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Therefore care should be taken during transport and handling.

1.2 Features and benefits

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

1.3 Quick reference data

Table 1. Quick reference data

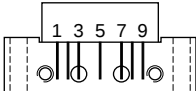
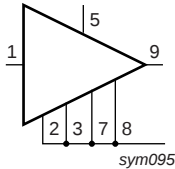
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$f = 50 \text{ MHz}$	18	18.5	19	dB
		$f = 860 \text{ MHz}$	18.5	19.5	-	dB
I_{tot}	total current consumption (DC)	$V_B = 24 \text{ V}$ [1]	-	225	240	mA

[1] The module normally operates at $V_B = 24 \text{ V}$, but is able to withstand supply transients up to 30 V.



2. Pinning information

Table 2. Pinning

Pin	Description	Simplified outline	Symbol
1	input		
2	common		
3	common		
5	+V _B		
7	common		
8	common		
9	output		

3. Ordering information

Table 3. Ordering information

Type number	Package		
	Name	Description	Version
BGY885A	-	rectangular single-ended package; aluminium flange; 2 vertical mounting holes; 2 × 6-32 UNC and 2 extra horizontal mounting holes; 7 gold-plated in-line leads	SOT115J

4. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	Conditions	Min	Max	Unit
V _i	RF input voltage		-	65	dBmV
T _{stg}	storage temperature		-40	+100	°C
T _{mb}	mounting base temperature		-20	+100	°C

5. Characteristics

Table 5. Characteristics

Bandwidth 40 MHz to 860 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$f = 50\text{ MHz}$	18	18.5	19	dB
		$f = 860\text{ MHz}$	18.5	19.5	-	dB
SL	slope cable equivalent	$f = 40\text{ MHz to }860\text{ MHz}$	0	0.8	2	dB
FL	flatness of frequency response	$f = 40\text{ MHz to }860\text{ MHz}$	-	± 0.2	± 0.3	dB
S_{11}	input return losses	$f = 40\text{ MHz to }80\text{ MHz}$	20	31	-	dB
		$f = 80\text{ MHz to }160\text{ MHz}$	18.5	30	-	dB
		$f = 160\text{ MHz to }320\text{ MHz}$	17	27.5	-	dB
		$f = 320\text{ MHz to }640\text{ MHz}$	15.5	25	-	dB
		$f = 640\text{ MHz to }860\text{ MHz}$	14	20.5	-	dB
S_{22}	output return losses	$f = 40\text{ MHz to }80\text{ MHz}$	20	29	-	dB
		$f = 80\text{ MHz to }160\text{ MHz}$	18.5	27.5	-	dB
		$f = 160\text{ MHz to }320\text{ MHz}$	17	24	-	dB
		$f = 320\text{ MHz to }640\text{ MHz}$	15.5	21	-	dB
		$f = 640\text{ MHz to }860\text{ MHz}$	14	21	-	dB
ϕ_{s21}	phase response	$f = 50\text{ MHz}$	-45	-	+45	deg
CTB	composite triple beat	49 channels flat; $V_o = 44\text{ dBmV}$; measured at 859.25 MHz	-	-65	-61	dB
X_{mod}	cross modulation	49 channels flat; $V_o = 44\text{ dBmV}$; measured at 55.25 MHz	-	-65	-61	dB
CSO	composite second order distortion	49 channels flat; $V_o = 44\text{ dBmV}$; measured at 860.5 MHz	-	-67	-61	dB
d_2	second order distortion		[1] -	-78	-70	dB
V_o	output voltage	$d_{im} = -60\text{ dB}$	[2] 58	60	-	dBmV
F	noise figure	$f = 50\text{ MHz}$	-	4.5	5	dB
		$f = 450\text{ MHz}$	-	-	5.5	dB
		$f = 550\text{ MHz}$	-	-	5.5	dB
		$f = 600\text{ MHz}$	-	-	6	dB
		$f = 650\text{ MHz}$	-	-	6	dB
		$f = 750\text{ MHz}$	-	-	7	dB
		$f = 860\text{ MHz}$	-	6	8	dB
I_{tot}	total current consumption (DC)		[3] -	225	240	mA

[1] $f_p = 55.25\text{ MHz}$; $V_p = 44\text{ dBmV}$; $f_q = 805.25\text{ MHz}$; $V_q = 44\text{ dBmV}$; measured at $f_p + f_q = 860.5\text{ MHz}$.

[2] 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 $f_p + f_q - f_r = 849.25\text{ MHz}$.

[3] The module normally operates at $V_B = 24\text{ V}$, but is able to withstand supply transients up to 30 V.

Table 6. CharacteristicsBandwidth 40 MHz to 750 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
G _p	power gain	f = 50 MHz	18	18.5	19	dB	
		f = 750 MHz	18.5	-	-	dB	
SL	slope cable equivalent	f = 40 MHz to 750 MHz	0	-	1.5	dB	
FL	flatness of frequency response	f = 40 MHz to 750 MHz	-	-	±0.3	dB	
S ₁₁	input return losses	f = 40 MHz to 80 MHz	20	31	-	dB	
		f = 80 MHz to 160 MHz	18.5	30	-	dB	
		f = 160 MHz to 320 MHz	17	27.5	-	dB	
		f = 320 MHz to 640 MHz	15.5	25	-	dB	
		f = 640 MHz to 750 MHz	14	20.5	-	dB	
S ₂₂	output return losses	f = 40 MHz to 80 MHz	20	29	-	dB	
		f = 80 MHz to 160 MHz	18.5	27.5	-	dB	
		f = 160 MHz to 320 MHz	17	24	-	dB	
		f = 320 MHz to 640 MHz	15.5	21	-	dB	
		f = 640 MHz to 750 MHz	14	21	-	dB	
φ _{s21}	phase response	f = 50 MHz	-45	-	+45	deg	
CTB	composite triple beat	110 channels flat; V _o = 44 dBmV; measured at 745.25 MHz	-	-55	-53	dB	
X _{mod}	cross modulation	110 channels flat; V _o = 44 dBmV; measured at 55.25 MHz	-	-58	-57	dB	
CSO	composite second order distortion	110 channels flat; V _o = 44 dBmV; measured at 746.5 MHz	-	-65	-53	dB	
d ₂	second order distortion		[1]	-	-	-65 dB	
V _o	output voltage	d _{im} = -60 dB	[2]	59	-	-	dBmV
F	noise figure	see Table 5	-	-	-	dB	
I _{tot}	total current consumption (DC)		[3]	-	225	240	mA

[1] $f_p = 55.25\text{ MHz}$; $V_p = 44\text{ dBmV}$; $f_q = 691.25\text{ MHz}$; $V_q = 44\text{ dBmV}$; measured at $f_p + f_q = 746.5\text{ MHz}$.[2] 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 $f_p + f_q - f_r = 738.25\text{ MHz}$.[3] The module normally operates at $V_B = 24\text{ V}$, but is able to withstand supply transients up to 30 V.**Table 7. Characteristics**Bandwidth 40 MHz to 600 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$f = 50\text{ MHz}$	18	18.5	19	dB
		$f = 600\text{ MHz}$	18.5	-	-	dB
SL	slope cable equivalent	$f = 40\text{ MHz to }600\text{ MHz}$	0	-	1.5	dB
FL	flatness of frequency response	$f = 40\text{ MHz to }600\text{ MHz}$	-	-	± 0.3	dB
S_{11}	input return losses	$f = 40\text{ MHz to }80\text{ MHz}$	20	31	-	dB
		$f = 80\text{ MHz to }160\text{ MHz}$	18.5	30	-	dB
		$f = 160\text{ MHz to }320\text{ MHz}$	17	27.5	-	dB
		$f = 320\text{ MHz to }600\text{ MHz}$	16	25	-	dB

Table 7. Characteristics ...continuedBandwidth 40 MHz to 600 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
S ₂₂	output return losses	f = 40 MHz to 80 MHz	20	29	-	dB
		f = 80 MHz to 160 MHz	18.5	27.5	-	dB
		f = 160 MHz to 320 MHz	17	24	-	dB
		f = 320 MHz to 600 MHz	16	21	-	dB
ϕ_{s21}	phase response	f = 50 MHz	-45	-	+45	deg
CTB	composite triple beat	85 channels flat; $V_o = 44\text{ dBmV}$; measured at 595.25 MHz	-	-60	-57	dB
X _{mod}	cross modulation	85 channels flat; $V_o = 44\text{ dBmV}$; measured at 55.25 MHz	-	-60.5	-59	dB
CSO	composite second order distortion	85 channels flat; $V_o = 44\text{ dBmV}$; measured at 596.5 MHz	-	-64.5	-58	dB
d ₂	second order distortion		[1] -	-79	-70	dB
V _o	output voltage	d _{im} = -60 dB	[2] 61	64.5	-	dBmV
F	noise figure	see Table 5	-	-	-	dB
I _{tot}	total current consumption (DC)		[3] -	225	240	mA

[1] $f_p = 55.25\text{ MHz}$; $V_p = 44\text{ dBmV}$; $f_q = 541.25\text{ MHz}$; $V_q = 44\text{ dBmV}$; measured at $f_p + f_q = 596.5\text{ MHz}$.[2] 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 $f_p + f_q - f_r = 588.25\text{ MHz}$.[3] The module normally operates at $V_B = 24\text{ V}$, but is able to withstand supply transients up to 30 V.**Table 8. Characteristics**Bandwidth 40 MHz to 550 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G _p	power gain	f = 50 MHz	18	18.5	19	dB
		f = 550 MHz	18.5	-	-	dB
SL	slope cable equivalent	f = 40 MHz to 550 MHz	0	-	1.5	dB
FL	flatness of frequency response	f = 40 MHz to 550 MHz	-	-	± 0.3	dB
S ₁₁	input return losses	f = 40 MHz to 80 MHz	20	31	-	dB
		f = 80 MHz to 160 MHz	18.5	30	-	dB
		f = 160 MHz to 320 MHz	17	27.5	-	dB
		f = 320 MHz to 550 MHz	16	25	-	dB
S ₂₂	output return losses	f = 40 MHz to 80 MHz	20	29	-	dB
		f = 80 MHz to 160 MHz	18.5	27.5	-	dB
		f = 160 MHz to 320 MHz	17	24	-	dB
		f = 320 MHz to 550 MHz	16	21	-	dB
ϕ_{s21}	phase response	f = 50 MHz	-45	-	+45	deg
CTB	composite triple beat	77 channels flat; $V_o = 44\text{ dBmV}$; measured at 547.25 MHz	-	-61	-60	dB
X _{mod}	cross modulation	77 channels flat; $V_o = 44\text{ dBmV}$; measured at 55.25 MHz	-	-61	-60	dB
CSO	composite second order distortion	77 channels flat; $V_o = 44\text{ dBmV}$; measured at 548.5 MHz	-	-69	-60	dB

Table 8. Characteristics ...continuedBandwidth 40 MHz to 550 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
d_2	second order distortion		[1] -	-	-72	dB
V_o	output voltage	$d_{im} = -60\text{ dB}$	[2] 62	-	-	dBmV
F	noise figure	see Table 5	-	-	-	dB
I_{tot}	total current consumption (DC)		[3] -	225	240	mA

[1] $f_p = 55.25\text{ MHz}$; $V_p = 44\text{ dBmV}$; $f_q = 493.25\text{ MHz}$; $V_q = 44\text{ dBmV}$; measured at $f_p + f_q = 548.5\text{ MHz}$.[2] Measured according to DIN45004B: $f_p = 540.25\text{ MHz}$; $V_p = V_o$; $f_q = 547.25\text{ MHz}$; $V_q = V_o - 6\text{ dB}$; $f_r = 549.25\text{ MHz}$; $V_r = V_o - 6\text{ dB}$; measured at $f_p + f_q - f_r = 538.25\text{ MHz}$.[3] The module normally operates at $V_B = 24\text{ V}$, but is able to withstand supply transients up to 30 V.**Table 9. Characteristics**Bandwidth 40 MHz to 450 MHz; $V_B = 24\text{ V}$; $T_{mb} = 30\text{ }^{\circ}\text{C}$; $Z_S = Z_L = 75\text{ }\Omega$; unless otherwise specified.

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
G_p	power gain	$f = 50\text{ MHz}$	18	18.5	19	dB
		$f = 450\text{ MHz}$	18.5	-	-	dB
SL	slope cable equivalent	$f = 40\text{ MHz to } 450\text{ MHz}$	0	-	1.5	dB
FL	flatness of frequency response	$f = 40\text{ MHz to } 450\text{ MHz}$	-	-	± 0.3	dB
s_{11}	input return losses	$f = 40\text{ MHz to } 80\text{ MHz}$	20	31	-	dB
		$f = 80\text{ MHz to } 160\text{ MHz}$	18.5	30	-	dB
		$f = 160\text{ MHz to } 320\text{ MHz}$	17	27.5	-	dB
		$f = 320\text{ MHz to } 450\text{ MHz}$	16	25	-	dB
s_{22}	output return losses	$f = 40\text{ MHz to } 80\text{ MHz}$	20	29	-	dB
		$f = 80\text{ MHz to } 160\text{ MHz}$	18.5	27.5	-	dB
		$f = 160\text{ MHz to } 320\text{ MHz}$	17	24	-	dB
		$f = 320\text{ MHz to } 450\text{ MHz}$	16	21	-	dB
φ_{s21}	phase response	$f = 50\text{ MHz}$	-45	-	+45	deg
CTB	composite triple beat	60 channels flat; $V_o = 46\text{ dBmV}$; measured at 445.25 MHz	-	-	-61	dB
X_{mod}	cross modulation	60 channels flat; $V_o = 46\text{ dBmV}$; measured at 55.25 MHz	-	-	-60	dB
CSO	composite second order distortion	60 channels flat; $V_o = 46\text{ dBmV}$; measured at 446.5 MHz	-	-	-61	dB
d_2	second order distortion		[1] -	-	-75	dB
V_o	output voltage	$d_{im} = -60\text{ dB}$	[2] 64	-	-	dBmV
F	noise figure	see Table 5	-	-	-	dB
I_{tot}	total current consumption (DC)		[3] -	225	240	mA

[1] $f_p = 55.25\text{ MHz}$; $V_p = 46\text{ dBmV}$; $f_q = 391.25\text{ MHz}$; $V_q = 46\text{ dBmV}$; measured at $f_p + f_q = 446.5\text{ MHz}$.[2] Measured according to DIN45004B: $f_p = 440.25\text{ MHz}$; $V_p = V_o$; $f_q = 447.25\text{ MHz}$; $V_q = V_o - 6\text{ dB}$; $f_r = 449.25\text{ MHz}$; $V_r = V_o - 6\text{ dB}$; measured at $f_p + f_q - f_r = 438.25\text{ MHz}$.[3] The module normally operates at $V_B = 24\text{ V}$, but is able to withstand supply transients up to 30 V.

6. 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

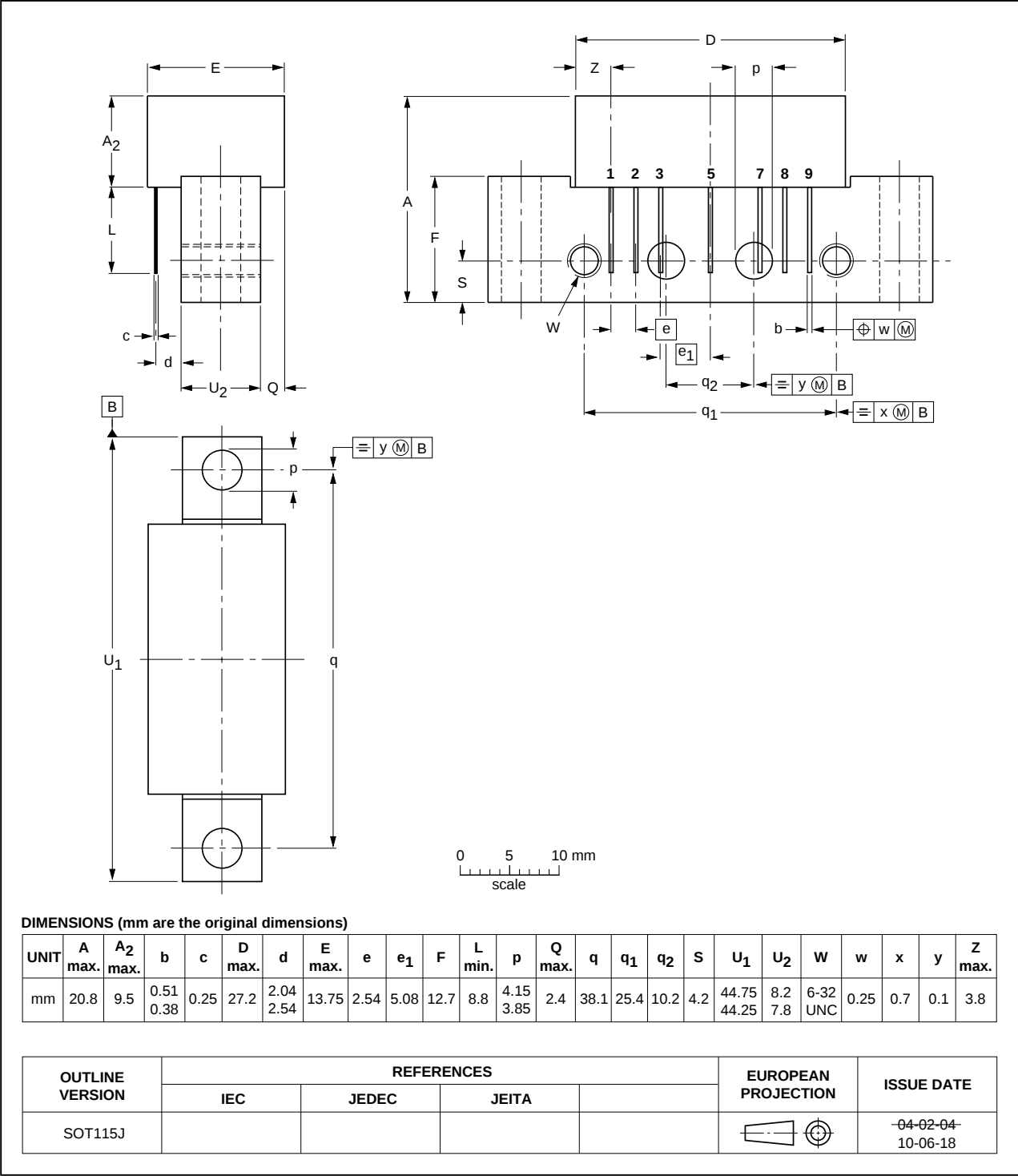


Fig 1. Package outline SOT115J

7. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BGY885A v.7	20110919	Product data sheet	-	BGY885A v.6
Modifications:	• The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. • Legal texts have been adapted to the new company name where appropriate. • Package outline drawings have been updated to the latest version.			
BGY885A v.6 (9397 750 14434)	20050322	Product data sheet	-	BGY885A v.5
BGY885A v.5 (9397 750 08818)	20011022	Product specification	-	BGY885A v.4
BGY885A v.4 (9397 750 05444)	19990330	Product specification	-	BGY885A v.3
BGY885A v.3 (9397 750 02093)	19970407	Product specification	-	BGY885A v.2
BGY885A v.2	19950201	Product specification	-	n.a.

8. Legal information

8.1 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.

[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".

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9. Contact information

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