BLF8G20LS-260A

Power LDMOS transistor
Rev. 5 — 1 September 2015

AMPLEON Product data sheet

Product profile

1.1 General description

260 W LDMOS packaged asymmetric Doherty power transistor for base station applications at frequencies from 1805 MHz to 1880 MHz.

Table 1. **Typical performance**

Typical RF performance at $T_{case} = 25 \, ^{\circ}$ C in an asymmetrical Doherty production test circuit.

Test signal	f	V _{DS}	$P_{L(AV)}$	Gp	η_D	ACPR
	(MHz)	(V)	(W)	(dB)	(%)	(dBc)
1-carrier W-CDMA[1]	1805 to 1880	28	50	15.9	45.5	-29 ^[2]

^[1] $V_{DS} = 28 \text{ V}$; $I_{Dq} = 750 \text{ mA (main)}$; $V_{GS(amp)peak} = 0.80 \text{ V}$.

1.2 Features and benefits

- Excellent ruggedness
- High-efficiency
- Low R_{th} providing excellent thermal stability
- Designed for broadband operation (1805 MHz to 1880 MHz)
- Asymmetric design to achieve optimum efficiency across the band
- Lower output capacitance for improved performance in Doherty applications
- Designed for low memory effects providing excellent digital pre-distortion capability
- Internally matched for ease of use
- Integrated ESD protection
- Compliant to Directive 2002/95/EC, regarding Restriction of Hazardous Substances (RoHS)

1.3 Applications

 RF power amplifiers for W-CDMA base stations and GSM multi carrier applications in the 1805 MHz to 1880 MHz frequency range

^[2] Test signal: 3GPP test model 1; 64 DPCH; PAR = 9.65 dB at 0.01% probability on CCDF per carrier.

2. Pinning information

Table 2. Pinning

I dibio 2.	9		
Pin	Description	Simplified outli	ne Graphic symbol
1	drain1 (main)		,
2	drain2 (peak)	1 2	1 1
3	gate1 (main)		^{]5}
4	gate2 (peak)	3 4	3 - 5
5	source	<u>[1]</u>	4
			'—
			sym117

^[1] Connected to flange.

3. Ordering information

Table 3. Ordering information

Type number	Packag	age					
	Name	Description	Version				
BLF8G20LS-260A	-	earless flanged balanced ceramic package; 4 leads	SOT539B				

4. Limiting values

Table 4. Limiting values

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

Symbol	Parameter	Conditions		Min	Max	Unit
V_{DS}	drain-source voltage			-	65	V
V _{GS(amp)main}	main amplifier gate-source voltage			-0.5	+13	V
V _{GS(amp)peak}	peak amplifier gate-source voltage			-0.5	+13	V
T _{stg}	storage temperature			-65	+150	°C
Tj	junction temperature		[1]	-	225	°C

^[1] Continuous use at maximum temperature will affect reliability.

5. Thermal characteristics

Table 5. Thermal characteristics

Symbol	Parameter	Conditions	Тур	Unit
0 /	thermal resistance from junction to case	V _{DS} = 28 V; I _{Dq} = 750 mA (main); V _{GS(amp)peak} = 0.80 V; T _{case} = 80 °C		
		P _L = 50 W	0.36	K/W
		P _L = 200 W	0.29	K/W

6. Characteristics

Table 6. DC characteristics

 $T_i = 25$ °C unless otherwise specified.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Main dev	rice					
V _{(BR)DSS}	drain-source breakdown voltage	$V_{GS} = 0 \text{ V}; I_D = 1.44 \text{ mA}$	65	-	-	V
$V_{GS(th)}$	gate-source threshold voltage	V_{DS} = 10 V; I_{D} = 144 mA	1.5	1.9	2.3	V
V_{GSq}	gate-source quiescent voltage	V_{DS} = 28 V; I_{D} = 750 mA	1.7	2.1	2.5	V
I _{DSS}	drain leakage current	V_{GS} = 0 V; V_{DS} = 28 V	-	-	2.8	μА
I _{DSX}	drain cut-off current	$V_{GS} = V_{GS(th)} + 3.75 \text{ V};$ $V_{DS} = 10 \text{ V}$	-	27	-	Α
I _{GSS}	gate leakage current	$V_{GS} = 11 \text{ V}; V_{DS} = 0 \text{ V}$	-	-	280	nA
9 _{fs}	forward transconductance	$V_{DS} = 10 \text{ V}; I_D = 5.04 \text{ A}$	-	9.70	-	S
R _{DS(on)}	drain-source on-state resistance	$V_{GS} = V_{GS(th)} + 3.75 \text{ V};$ $I_D = 5.04 \text{ A}$	-	102	166	mΩ
Peak dev	rice					
V _{(BR)DSS}	drain-source breakdown voltage	$V_{GS} = 0 \text{ V}; I_D = 2.2 \text{ mA}$	65	-	-	V
V _{GS(th)}	gate-source threshold voltage	V_{DS} = 10 V; I_{D} = 220 mA	1.5	1.9	2.3	V
V_{GSq}	gate-source quiescent voltage	V_{DS} = 28 V; I_{D} = 1200 mA	1.7	2.1	2.5	V
I _{DSS}	drain leakage current	V_{GS} = 0 V; V_{DS} = 28 V	-	-	2.8	μА
I _{DSX}	drain cut-off current	$V_{GS} = V_{GS(th)} + 3.75 \text{ V};$ $V_{DS} = 10 \text{ V}$	-	41	-	Α
I _{GSS}	gate leakage current	V _{GS} = 11 V; V _{DS} = 0 V	-	-	280	nΑ
9 _{fs}	forward transconductance	$V_{DS} = 10 \text{ V}; I_D = 7.70 \text{ A}$	-	14.9	-	S
R _{DS(on)}	drain-source on-state resistance	$V_{GS} = V_{GS(th)} + 3.75 \text{ V};$ $I_D = 7.7 \text{ A}$	-	66	112	mΩ

Table 7. RF characteristics

Test signal: 1-carrier W-CDMA; PAR = 9.65 dB at 0.01 % probability on the CCDF; 3GPP test model 1; 1 - 64 DPCH; f_1 = 1810 MHz; f_2 = 1875 MHz; RF performance at V_{DS} = 28 V; I_{Dq} = 750 mA (main); $V_{GS(amp)peak}$ = 0.80 V; T_{case} = 25 °C; unless otherwise specified; in an asymmetrical Doherty production test circuit at 1805 MHz to 1880 MHz.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
G_p	power gain	$P_{L(AV)} = 50 \text{ W}$	14.7	15.9	-	dB
RL_{in}	input return loss	$P_{L(AV)} = 50 W$	-	-11	-7	dB
η_{D}	drain efficiency	$P_{L(AV)} = 50 W$	40	45.5	-	%
ACPR	adjacent channel power ratio	$P_{L(AV)} = 50 W$	-	-29	-24	dBc

Table 8. RF characteristics

Test signal: 1-carrier W-CDMA; PAR = 9.65 dB at 0.01 % probability on the CCDF; 3GPP test model 1; 1 - 64 DPCH; f = 1877.5 MHz; RF performance at V_{DS} = 28 V; I_{Dq} = 750 mA (main); $V_{GS(amp)peak}$ = 0.80 V; T_{case} = 25 °C; unless otherwise specified; in an asymmetrical Doherty production test circuit at 1805 MHz to 1880 MHz.

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
PARO	output peak-to-average ratio	$P_{L(AV)} = 60 \text{ W}$	6.4	7.0	-	dB
$P_{L(M)}$	peak output power		257	300	-	W

7. Test information

7.1 Ruggedness in Doherty operation

The BLF8G20LS-260A is capable of withstanding a load mismatch corresponding to a VSWR = 10 : 1 through all phases under the following conditions: V_{DS} = 28 V; I_{Dq} = 750 mA (main); $V_{GS(amp)peak}$ = 0.80 V; P_{L} = 200 W (CW); f = 1805 MHz to 1880 MHz.

7.2 Impedance information

Table 9. Typical impedance of main device

Measured load-pull data of main device; $I_{Dq} = 750$ mA (main); $V_{DS} = 28$ V.

f	Z _S [1]	Z _L [1]	P _L [2]	η _D [2]	G _p [2]
(MHz)	(Ω)	(Ω)	(W)	(%)	(dB)
Maximum po	wer load				
1810	1.0 – j3.7	1.4 – j4.1	172	56.3	15.1
1840	1.0 – j3.9	1.4 – j3.9	167	55.9	15.1
1880	1.1 – j4.0	1.4 – j3.6	162	57.4	15.3
Maximum dra	ain efficiency load				
1810	1.0 – j3.7	2.6 - j2.4	114	67	17.5
1840	1.0 – j3.9	2.4 – j2.8	126	66	17.3
1880	1.1 – j4.0	2.3 – j2.7	120	66	17.6

^[1] Z_S and Z_L defined in Figure 1.

Table 10. Typical impedance of peak device

Measured load-pull data of peak device; $I_{Dq} = 1200$ mA (peak); $V_{DS} = 28$ V.

f	Z _S [1]	Z _L [1]	P _L [2]	η _D [2]	G _p [2]
(MHz)	(Ω)	(Ω)	(W)	(%)	(dB)
Maximum po	wer load				
1810	0.8 - j3.7	1.8 – j4.5	240	54	15.3
1840	0.7 – j3.9	1.8 – j4.3	238	56	15.4
1880	0.7 - j4.0	1.7 – j4.0	233	57	15.8

^[2] at 3 dB gain compression.

Table 10. Typical impedance of peak device ...continued

Measured load-pull data of peak device; $I_{Dq} = 1200 \text{ mA}$ (peak); $V_{DS} = 28 \text{ V}$.

f	Z _S [1]	Z _L [1]	P _L [2]	η _D [2]	G _p [2]
(MHz)	(Ω)	(Ω)	(W)	(%)	(dB)
Maximum dra	in efficiency load				
1810	0.8 – j3.7	2.6 – j2.6	176	67	18.1
1840	0.7 – j3.9	2.4 - j2.4	162	66	18.3
1880	0.7 – j4.0	2.3 – j2.5	163	65	18.4

- [1] Z_S and Z_L defined in Figure 1.
- [2] at 3 dB gain compression.

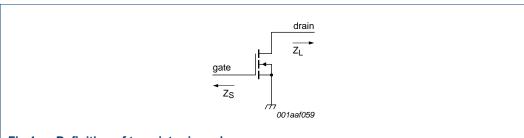


Fig 1. Definition of transistor impedance

7.3 Recommended impedances for Doherty design

Table 11. Typical impedance of main device at 1 : 1 load

Measured load-pull data of main device; $I_{Dq} = 750$ mA (main); $V_{DS} = 28$ V.

f	Z _S [1]	Z _L [1]	P _L [2]	η _D [3]	G _p [3]	
(MHz)	(Ω)	(Ω)	(dBm)	(%)	(dB)	
1810	1.0 – j3.7	1.4 – j4.1	52.38	33.8	18.0	
1840	1.0 – j3.9	1.4 – j3.8	52.23	34.3	18.1	
1880	1.1 – j4.0	1.3 – j3.6	52.08	35.0	18.3	

- [1] Z_S and Z_L defined in Figure 1.
- [2] at 3 dB gain compression.
- [3] at $P_{L(AV)} = 47 \text{ dBm}$.

Table 12. Typical impedance of main device at 1: 2.5 load

Measured load-pull data of main device; $I_{Dq} = 750$ mA (main); $V_{DS} = 28$ V.

f	Z s ^[1]	Z _L [1]	P _L [2]	η _D [3]	G _p [3]
(MHz)	(Ω)	(Ω)	(dBm)	(%)	(dB)
1810	1.0 – j3.7	2.4 – j2.6	50.83	47.3	20.2
1840	1.0 – j3.9	2.8 – j3.0	50.47	50.2	20.8
1880	1.1 – j4.0	3.1 – j2.7	50.25	50.9	21.2

- [1] Z_S and Z_L defined in Figure 1.
- [2] at 3 dB gain compression.
- [3] at $P_{L(AV)} = 47 \text{ dBm}$.

Table 13. Typical impedance of peak device at 1 : 1 load

Measured load-pull data of peak device; $I_{Dq} = 1200 \text{ mA (peak)}$; $V_{DS} = 28 \text{ V}$.

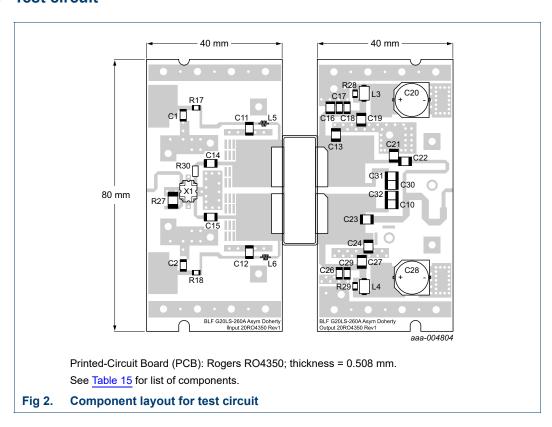
f	Z _S [1]	Z _L [1]	P _L [2]	η _D [2]	G _p [2]
(MHz)	(Ω)	(Ω)	(dBm)	(%)	(dB)
1810	0.8 – j3.7	2.2 – j4.3	53.70	59.1	16.1
1840	0.7 – j3.9	2.1 – j4.0	53.69	61.2	16.3
1880	0.7 – j4.0	2.1 – j3.7	53.43	62.0	16.8

^[1] Z_S and Z_L defined in Figure 1.

Table 14. Off-state impedances of peak device

f	Z _{off}
(MHz)	(Ω)
1810	0.5 – j0.1
1840	0.4 + j0.5
1880	0.4 + j4.0

7.4 Test circuit



^[2] at 3 dB gain compression.

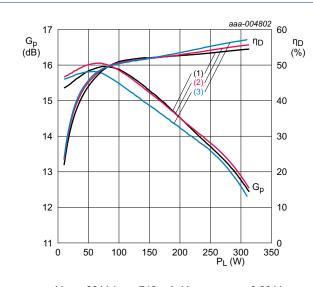
Table 15. List of components

For test circuit, see Figure 2.

Component	Description	Value	Remarks
C1, C2, C18, C29	multilayer ceramic chip capacitor	1 μF	Murata
C11, C12, C14, C15, C16, C22, C23, C25, C31	multilayer ceramic chip capacitor	30 pF	ATC100B
C13	multilayer ceramic chip capacitor	0.5 pF	ATC800B
C17, C26	multilayer ceramic chip capacitor	100 nF	Murata
C19, C27, C30, C32	multilayer ceramic chip capacitor	10 μF	Murata
C20, C28	electrolytic capacitor	2200 μF	Panasonic
C21	multilayer ceramic chip capacitor	0.3 pF	ATC800B
C24	multilayer ceramic chip capacitor	1.2 pF	ATC800B
R17, R18	resistor	5.1 Ω	SMD1206
R27	resistor	50 Ω	EMC
R28, R29	resistor	9.1 Ω	Vishay Dale
R30	resistor	5.6Ω	SMD1206
L3, L4	ferrite bead	-	Fair Rite 2743019447
L5, L6	inductor	12 nH	Coilcraft
X1	hybrid coupler	-	Anaren X3C19P1-03S

7.5 Graphical data

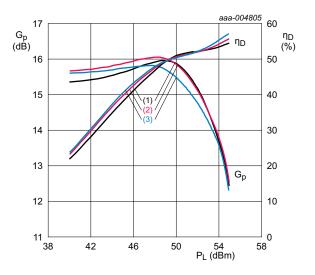
7.5.1 CW pulsed



 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

- (1) f = 1805 MHz
- (2) f = 1842.5 MHz
- (3) f = 1880 MHz

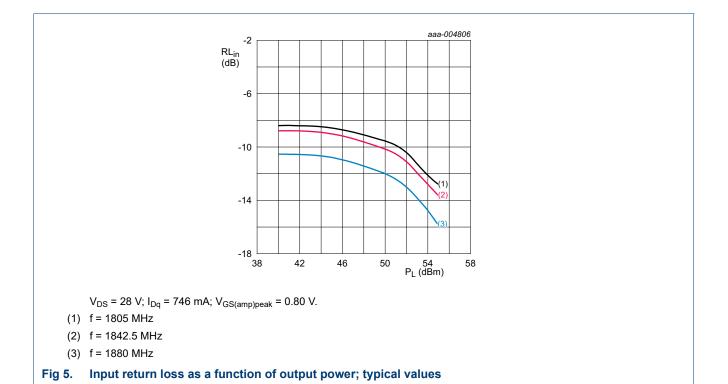
Fig 3. Power gain and drain efficiency as function of output power; typical values



 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

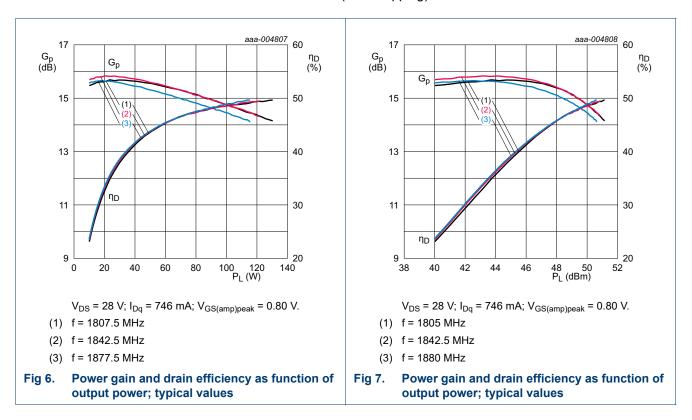
- (1) f = 1805 MHz
- (2) f = 1842.5 MHz
- (3) f = 1880 MHz

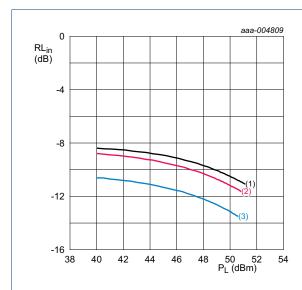
Fig 4. Power gain and drain efficiency as function of output power; typical values



7.5.2 2-Carrier W-CDMA

2-carrier W-CDMA; PAR = 7.5 dB per carrier at 0.01 % probability on the CCDF; 3GPP test model with 64 DPCH (46 % clipping).

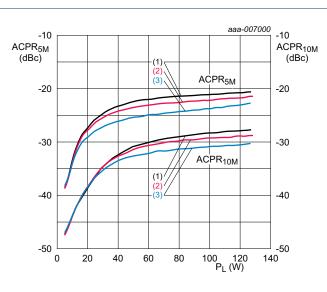




 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

- (1) f = 1807.5 MHz
- (2) f = 1842.5 MHz
- (3) f = 1877.5 MHz

Fig 8. Input return loss as a function of output power; typical values



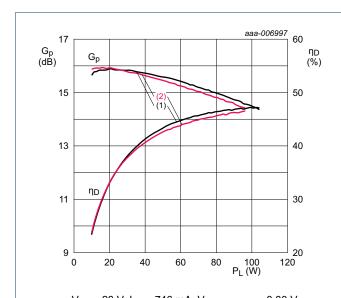
 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

- (1) f = 1807.5 MHz
- (2) f = 1842.5 MHz
- (3) f = 1877.5 MHz

Fig 9. Adjacent channel power ratio (5 MHz) and Adjacent channel power ratio (10 MHz) as function of output power; typical values

7.5.3 1-Carrier W-CDMA

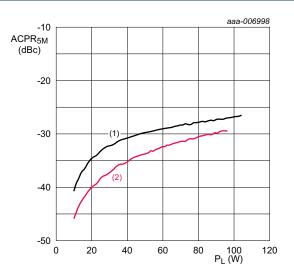
1-carrier W-CDMA; PAR = 9.65 dB per carrier at 0.01 % probability on the CCDF; 3GPP test model with 64 DPCH (no clipping).



 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

- (1) f = 1810 MHz
- (2) f = 1875 MHz

Fig 10. Power gain and drain efficiency as function of output power; typical values



 $V_{DS} = 28 \text{ V}; I_{Dq} = 746 \text{ mA}; V_{GS(amp)peak} = 0.80 \text{ V}.$

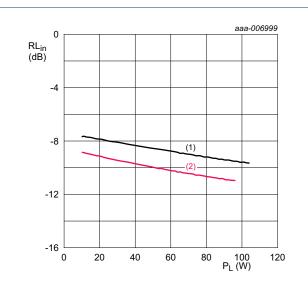
- (1) f = 1810 MHz
- (2) f = 1875 MHz

Fig 11. Adjacent channel power ratio (5 MHz) as a function of output power; typical values

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 V_{DS} = 28 V; I_{Dq} = 746 mA; $V_{GS(amp)peak}$ = 0.80 V.

- (1) f = 1810 MHz
- (2) f = 1875 MHz

Fig 12. Input return loss as a function of output power; typical values

8. Package outline

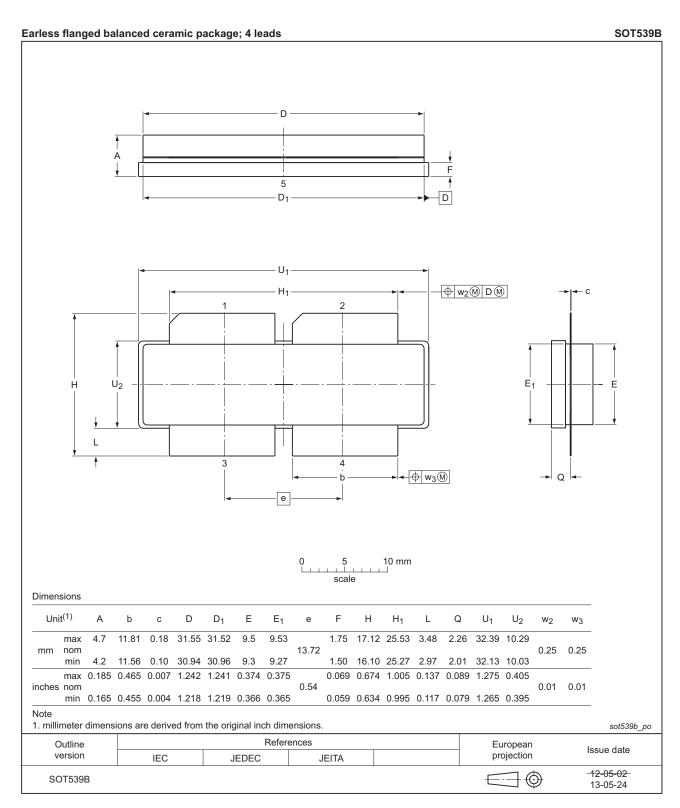


Fig 13. Package outline SOT539B

9. Handling information

CAUTION



This device is sensitive to ElectroStatic Discharge (ESD). Observe precautions for handling electrostatic sensitive devices.

Such precautions are described in the ANSI/ESD S20.20, IEC/ST 61340-5, JESD625-A or equivalent standards.

10. Abbreviations

Table 16. Abbreviations

Acronym	Description
3GPP	Third Generation Partnership Project
CCDF	Complementary Cumulative Distribution Function
CW	Continuous Wave
DPCH	Dedicated Physical CHannel
ESD	ElectroStatic Discharge
GSM	Global System for Mobile communications
LDMOS	Laterally Diffused Metal-Oxide Semiconductor
PAR	Peak-to-Average Ratio
SMD	Surface Mounted Device
VSWR	Voltage Standing Wave Ratio
W-CDMA	Wideband Code Division Multiple Access

11. Revision history

Table 17. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
BLF8G20LS-260A#5	20150901	Product data sheet		BLF8G20LS-260A v.4
Modifications:	of Ampleon.	this document has been rede		, ,
BLF8G20LS-260A v.4	20130712	Product data sheet	-	BLF8G20LS-260A v.3
BLF8G20LS-260A v.3	20130501	Product data sheet	-	BLF8G20LS-260A v.2
BLF8G20LS-260A v.2	20121109	Preliminary data sheet	-	BLF8G20LS-260A v.1
BLF8G20LS-260A v.1	20120913	Objective 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.

- [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.ampleon.com.

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AMPLEON

BLF8G20LS-260A

Power LDMOS transistor

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