

# YoBon Product List Mar, 2010

## Step-Up Converter & WLED Driver

Part No.	Description	Vin	Peak Current	OVP	LED No. (Max.)	Feedback Voltage	Frequency	PKG	Tape Reel
YB1500	Asynchronous Boost Controller/Converter	1.0V~5.0V	1.5A	N.A.	N.A.	1.23V	1.0MHz	SOT23-6	3K
YB1501	Synchronous Boost Converter	0.8V~4.4V	900mA	N.A.	N.A.	1.23V	1.4MHz	SOT23-6	3K
YB1502	Asynchronous Boost Controller/Converter	1.0V~5.0V	1.6A	N.A.	N.A.	200mV	1.0MHz	SOT23-6	3K
YB1503	3W High Power WLED Driver	0.9V~V <sub>F</sub> -0.2V	750mA	N.A.	1S ( 3 Watt LED )	95mV	1.0MHz	SOT23-6	3K
YB1517	PWM High-Voltage White LED driver	2.7V~16V	420mA	30V	6S	220mV	900KHz	SOT23-5	3K
YB1518	PWM High-Voltage White LED driver	2.7V~7V	650mA	34V	9S 6S X 2P	100mV	930KHz	SOT23-5	3K
YB1519	PFM High-Voltage White LED driver	2.0V~16V	adjustable	40V	N.A.	1.23V	N.A.	MSOP-10	2.5K
YB1520	PWM High-Power White LED driver	2.7V~7V	450mA	30V	3S x 2P to 3S x 6P	200mV	700KHz	SOT23-5	3K
YB1521	PWM High-Power White LED driver	2.5V~5.5V	1.6A	18V	up to 3S x 15P	200mV	1.3MHz	SOT23-5 DFN-8 2x2	3K
YB1522	PWM High-Power White LED driver	3.0V~16V	900mA	30V	3S x 7P to 3S x 10P	100mV	930KHz	SOT23-5	3K
YB1531	PWM White LED driver	2.7V~5.5V	1.5A	40V	10S and up 3Sx9P	200mV	1.0MHz	DFN-8 2x2	3K
YB1537	PWM White LED driver	2.5V~18V	320mA	20V	3S to 5S	95mV	1.2MHz	SOT23-6	3K
YB1550	HV Asynchronous Boost Converter	2.5V~5.0V	1.6A	18V	Vout up to 18V	1.23V	1.3MHz	SOT23-5	3K

## Step-Down Converter

Part No.	Description	Vin	Output Current	Peak Current	SCP Freq Folding	Feedback Voltage	Frequency	PKG	Tape Reel
YB1610	Synchronous Step-Down Converter	2.5V~5.5V	1.0A	1.5A	500KHz	0.60V	1.5MHz	DFN 2x2-6	3K
YB1611	Synchronous Step-Down Converter	4.5V~28V	1.5A	1.8A	467KHZ	0.81V	1.4MHz	SOT 23-6	3K
YB1612	Dual Channel Synchronous Step-Down Converter	2.5V~5.5V	1.0A x 2	1.5A	500KHz	0.60V	1.5MHz	WDFN 3x3-12	3K
YB1620	Hi-Current Synchronous Step-Down Converter	2.5V~5.5V	2.0A	3.5A	350KHz	0.60V	1.2MHz	WDFN 3x3-10	3K
YB1680	Synchronous Step-Down Converter	2.5V~5.5V	800mA	1.5A	250KHz	0.60V	1.5MHz	SOT23-5	3K
YB1609	Non Synchronous Step-Down Converter	5.0V~40V	2.0A	3.8A	N.A.	1.23V	150KHz	SOP-8	2.5K
YB1613	Non Synchronous Step-Down Converter	3V~20V	3.0A	5.0A	42KHz	0.80V	380KHz	SOP-8	2.5K
YB1682	Non synchronous Step-Down 2A Converter	4.5~20V	2.0A	3.0A	42KHz	1.22V	380KHz	SOP-8	2.5K
YB1683	Non synchronous Step-Down 3A Converter	4.5~28V	3.0A	4.0A	42KHz	1.23V	380KHz	SOP-8	2.5K
YB1685	Non synchronous Step-Down 2A Converter	4.5~32V	2.0A	3.0A	42KHz	1.23V	380KHz	SOP-8	2.5K
YB1692	Synchronous Step-Down 2A Converter	4.75~18V	2.0A	2.4A	42KHz	0.923V	340KHz	SOP-8	2.5K

<b>YB1693</b>	Synchronous Step-Down 3A Converter	4.75~23V	3.0A	4.0A	42KHz	0.925V	450KHz	SOP-8	2.5K
---------------	------------------------------------	----------	------	------	-------	--------	--------	-------	------

### Ultra Low Dropout Linear Regulator

Part No.	Description	Vin	Output Current	Quiescent Current	PSRR	Dropout Voltage	Vout	PKG	Tape Reel
<b>YB1201</b>	800mA Adjustable LDO Regulator	~12V	800mA	8mA	60dB@120Hz	1.3V@800mA	adjustable	SOT223	3K
<b>YB1202</b>	150mA Low-Noise LDO Regulator	~15V	150mA	5uA	75dB@100Hz	165V@150mA	FIX/adjustable	SOT235/SOP8	3K/2.5K
<b>YB1206</b>	1A Adjustable LDO Regulator	~6.5V	1A	50uA	N/A	350mV@1A	FIX/adjustable	SOT235/SOP8	3K/2.5K
<b>YB1223</b>	250mA*2 Dual Output LDO Regulator	2.0V~5.5V	250mA each	32uA	62dB@1KHz	200mV@200mA	1.2V~3.6V	SOT26	3K
<b>YB1223A</b>	250mA*2 Dual Output LDO Regulator	2.0V~5.5V	250mA each	65uA	72dB@1KHz	200mV@200mA	1.2V~3.6V	SOT26	3K
<b>YB1233</b>	600mA Low-Noise LDO Regulator	2.5V~5.5V	600mA	17uA	51dB@1KHz	700mV@600mA	2.5V~4.75V	SOT25/89	3K/1K
<b>YB1250</b>	300mA Ultra-Low-IQ LDO Regulator	2.0V~5.5V	300mA	1.5uA	66dB@1KHz	300mV@300mA	1.2V~4.5V	SC-70/SC-82	3K
<b>YB1251</b>	300mA Ultra-High-PSRR LDO Regulator	2.0V~5.5V	300mA	36uA	76dB@1KHz	300mV@300mA	1.2V~4.5V	SOT23/25	3K
<b>YB1253</b>	300mA Low-Noise, Low-IQ LDO Regulator	2.0V~5.5V	300mA	15uA	66dB@1KHz	300mV@300mA	1.2V~4.5V	SOT23/25	3K
<b>YB1255</b>	400mA Adjustable LDO Regulator	2.0V~5.5V	400mA	20uA	60dB@1KHz	400mV@400mA	adjustable	SOT26	3K
<b>YB1256</b>	600mA Adjustable LDO Regulator	2.0V~5.5V	600mA	50uA	55dB@100Hz	600mV@600mA	FIX/adjustable	SOT25/89	3K/1K
<b>YB1261</b>	250mA Hi-V, Low-IQ LDO Regulator	2.5V~12V	250mA	2uA	30dB@100KHz	400mV@250mA	1.5V~5.0V	SOT23/89	3K/1K
<b>YB1282</b>	2A Adjustable Linear Regulator	1.4V~5.5V	2A	70uA	50dB@1KHz	300mV@2A	adjustable	SOP-8	2.5K
<b>YB1283</b>	3A Adjustable Linear Regulator	1.4V~5.5V	3A	70uA	50dB@1KHz	350mV@3A	adjustable	SOP-8	2.5K
<b>YB1284</b>	5A Adjustable Linear Regulator	~12V	5A	5mA	60dB@120Hz	1.3V@5A	adjustable	TO252/263	2.5K/800
<b>YB1290/1/2</b>	1.5A Adjustable Linear Regulator	~26V	1.5A	2mA	N/A	350mV@1.5A	FIX/adjustable	TO252/263/220	2.5K/800

### Charge Pump WLEDs Driver

Part No.	Description	Vin	Output Current	Quiescent Current	LED No. (Max.)	Vout	Frequency	PKG	Tape Reel
<b>YB1300S</b>	Charge Pump for WLED	2.7V~5.0V	250mA	1mA	3~8	5.0V/4.5V	1.0MHz	SOT23-6	3K
<b>YB1303</b>	Low Dropout LEDs Driver	2.7V~5.5V	100mA	5uA	3	Constant Current	N.A.	SOT26/SC70	3K
<b>YB1305</b>	High Current Low Dropout LEDs Driver	2.7V~5.5V	700mA	1mA	1~2	Constant Current	N.A.	SOT89-3L	1K
<b>YB1315</b>	1X/1.5X Charge Pump for White LED	2.7V~5.0V	125mA	250uA	5	Constant Current	1.0MHz	TQFN-16 (3x3)	2.5K

### Battery Charger

Part No.	Description	Vin	Constant Current	Dropping Current	Charge Regulation Voltage	Accuracy	Pull-Down Current	PKG	Tape Reel
<b>YB1880</b>	Linear Lithium Battery Charger	4.2V~6.0V	800mA	<2uA	4.2V	1%	20uA	SOT23-5	3K

### Power Switch

Part No.	Description	Vin	Output Current	R <sub>DS(ON)</sub>	S.C. Current Limit	Turn on	Turn off	PKG	Tape Reel
<b>YB1900C</b>	High Side P-Channel Load Switch	1.8V~6.5V	1.2A/2.0A	100mΩ	YES	100uS	4uS	SOT23-6	3K
<b>YB1901</b>	High Side N-Channel Power Switch	2.7V~5.5V	1A/1.5A 2.0A/2.5A	100mΩ	YES	500uS	1.0mS	SOP/MSOP-8	2.5K
<b>YB1901D</b>	High Side N-Channel Power Switch	2.7V~5.5V	1A/1.5A 2.0A/2.5A	100mΩ	YES	500uS	1.0mS	SOT23-5	3K

### Reset IC

Part No.	Description	Vin	Output Current	Turn on	PKG	Tape Reel
<b>YB1921</b>	Reset IC	2.0V~5.5V	20mA	20uS	SOT23	3K

### Photoflash Capacitor Charger

Part No.	Description	Vin	SW Vout (Max.)	Peak Current	Feedback Voltage	PKG	Tape Reel
<b>YB7000</b>	Photoflash Capacitor Charger for Smart Phone	1.8V~16V	32V	700mA	1.23V	MSOP8	2.5K
<b>YB7002</b>	Photoflash Capacitor Charger for DSC	1.8V~16V	40V	1.4A	1.23V	MSOP8 MSOP10	2.5K

### Low-Power Hall Switch

Part No.	Description	Vin	Operate Points(Typ.)	Hysteresis(Typ.)	Release Points	PKG	Tape Reel
<b>YB8101</b>	Low-Power Hall Switch	2.4V~5.5V	50G	10G	40G	TSOT23 SOT23 SIP3	3K 3K 2K
<b>YB8102</b>	Low-Power Hall Switch	2.4V~5.5V	25G	10G	15G	TSOT23 SOT23 SIP3	3K 3K 2K
<b>YB8103</b>	Low-Power Hall Switch	2.4V~5.5V	15G	10G	5G	TSOT23 SOT23 SOT23-6 SIP3	3K 3K 3K 2K

**YoBon Technologies Inc**

**TEL: 886(2)8219-1005, FAX: 886(2)8219-3521**

**www.yobon.com.tw**