

HI-LED S





Approval

Rev. 0

Issue Date. _____

Doc No. HI-LEDS 01

Note | Specification is subject to change without notice.
Consequently it is better to contact to our company before proceeding with the design of your product incorporating this board

Prepared	Checked I	CheckedII	Approved
			
K.B PARK			YH. HAN

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Revision History

Rev.	ECN No.	Description of Changes	Date	Prepared
0		Initial Release		



1. Features

- ▷ 2.5V to 6V Input Voltage Range
- ▷ Drives up to 39 White LEDs at 5V Input
- ▷ Up to 92% Efficiency
- ▷ Low 104mV Feedback Voltage
- ▷ Soft-Start / PWM Dimming
- ▷ Internal 1.3A Current Limit

2. Applications

- ▷ 3.5" ~ 10.4" Small LCD Panel
- ▷ Industrial LCD panel

3. Electrical characteristics

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input Supply Voltage	V_{IN}		2.5	5.0	6.0	V
Supply Current (Shutdown)		$V_{EN} = 0V$		0.1	1	μV
Supply Current (Quiescent)		$V_{FB} = 0.15$		690	750	μV
Switching Frequency	f_{SW}		1.0	1.3	1.5	MHz
Maximum Duty Cycle		$V_{FB} = 0$	85	92		%
Output Supply Voltage	V_{OUT}		V_{in}		25	V

4. Connector and functional pin description



CN4 Connector	: 12505WR-06 (YEONHO KOREA)
CN4-1, 5	N.C
CN4-2	V_{IN} (DC Input ; 5.0V)
CN4-3, 4	G_{ND} (Power supply return)
CN4-6	Lamp On/Off control / V_{BRT} (Bright adjust ; 0.6 to 2.6V)
CN2 Connector	: 35001WR-02 (YEONHO KOREA)
CN2 -1	High voltage
CN2 -2	Cold
CN3 Connector	: SMW200-02 (YEONHO KOREA)
CN3 -1	High voltage
CN3 -2	Cold