

# PLED-xxxLF



## PMHLED-SERIES

Rev.04-2009

- ✓ High Power LED Driver
- ✓ Step-Down Converter
- ✓ Constant Current
- ✓ High Efficiency
- ✓ Dimming Function(PWM/Analog)
- ✓ Remote Control(Separate Pin)

All specifications typical at  $T_a=25^\circ\text{C}$ , nominal input voltage and full load unless otherwise specified

### Input Specifications

Voltage Range 5 – 36 VDC Wide Input (24V Recommended)

### Output Specifications

Output Voltage 2 – 32 VDC

Output Current See table ( $\pm 2\%$  Accuracy)

Short Circuit Protection Regulated at Rated Model Current

Open Protection No Load

Ripple and Noise 120 mV p-p, max.

### General Specifications

Efficiency See table, typ.

Operating Frequency 260 kHz

Capacitive Load 100  $\mu\text{F}$ , max.

Humidity 95% rel H

### Physical Specifications

Case Material Non Conductive Black Plastic (UL94V-0 rated)

Potting Material Epoxy (UL94V-0 rated)

Weight ~ 10g, typ.

### Environment Specifications

Operating Temperature -40 to +85  $^\circ\text{C}$  (for 100%)

Maximum Case Temperature 100  $^\circ\text{C}$

Storage Temperature -40 to +125  $^\circ\text{C}$

Cooling Free Air Convection (10mm distance required)

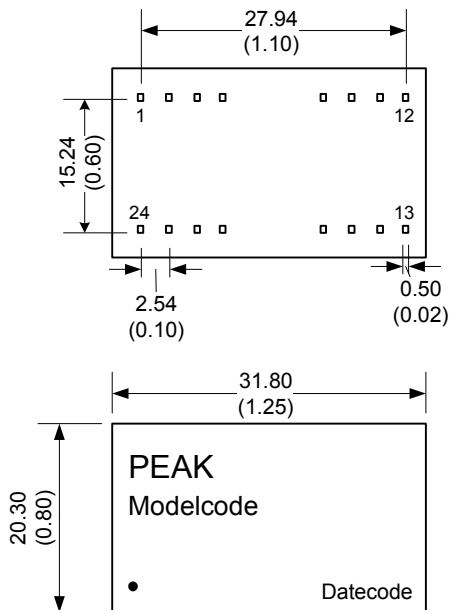
RoHS conform Soldering 260  $^\circ\text{C}$ , 10sec. max.

# Selection Guide

Order #	Input Voltage (Vdc)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
PLED-300LF	5-36	2-32	300	96
PLED-350LF	5-36	2-32	350	96
PLED-500LF	5-36	2-32	500	96
PLED-600LF	5-36	2-32	600	96
PLED-700LF	5-36	2-32	700	96
PLED-800LF	5-36	2-32	800	96
PLED-900LF	5-36	2-32	900	96
PLED-1000LF	5-36	2-32	1000	96
PLED-1100LF	5-36	2-32	1100	96
PLED-1200LF	5-36	2-32	1200	96

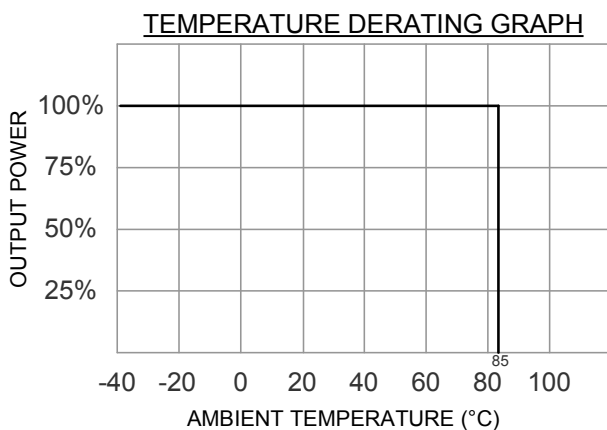
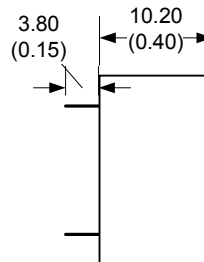
If you need other specifications, please ask.

## Package / Pinning / Derating



All dimensions are typical in millimeters (inches).  
 - Pin diameter: 1.0 +/-0.05 (0.04 +/-0.002)  
 - Pin pitch tolerance: +/-0.35 (+/-0.014)  
 - Case tolerance +/-0.5 (+/-0.02)  
 Specification may change without notice.

### DIP24 PLED – PLASTIC CASE



PIN CONNECTIONS	
#	SINGLE
1	Ctrl.
2	- Vin
3	- Vin
9	N.C.
11	N.C.
14	LED +
16	LED -
22	+Vin
23	+Vin
24	DIM
Others	Omitted

# App Notes

## REMOTE ON/OFF:

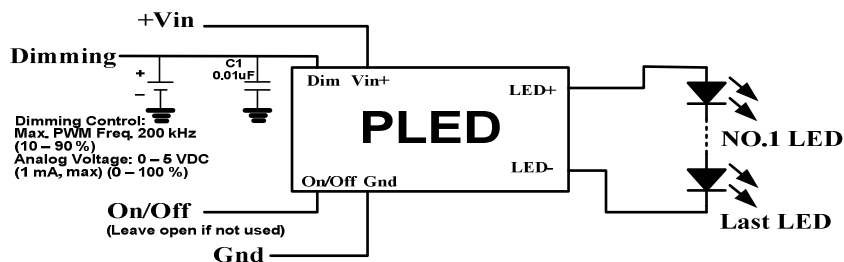
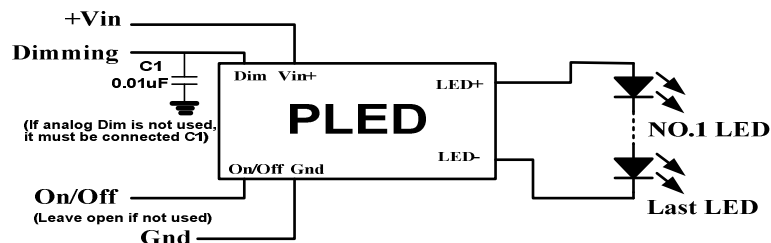
(Leave open if not in use)

- Input Range: 0 – 12 VDC
- Digital Control: Max. PWM Frequency: **200Hz**
- Analog Control: DC ON: Open or  $0V < V_r < 0.6V$   
DC OFF:  $0.6V < V_r < 5V$  (1mA, max.)

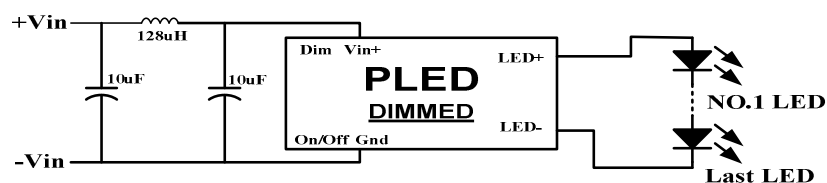
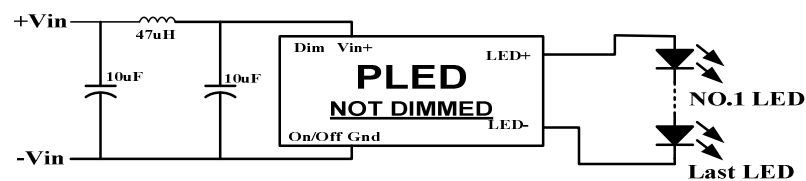
## DIMMING CONTROL:

(Leave open if not in use)

- Digital Control: Max PWM Frequency **200Hz** (10% - 90%)
- Analog Voltage: PLED-300/350/500: **0 – 4.5 VDC, 1mA** max. (0% - 100%)  
PLED-600 - 1200: **0 – 5.5 VDC, 1mA** max. (0% - 100%)

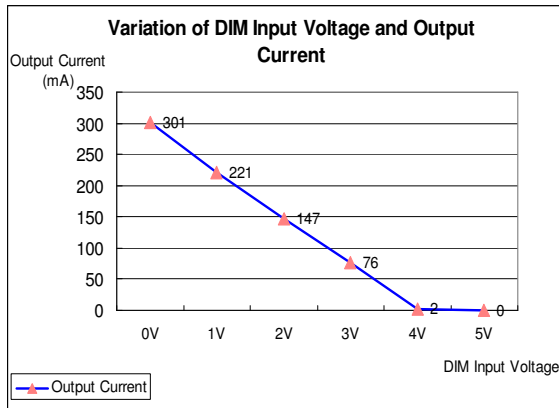


## CAPACITOR EXAMPLES: (Class B Filter Suggestion)

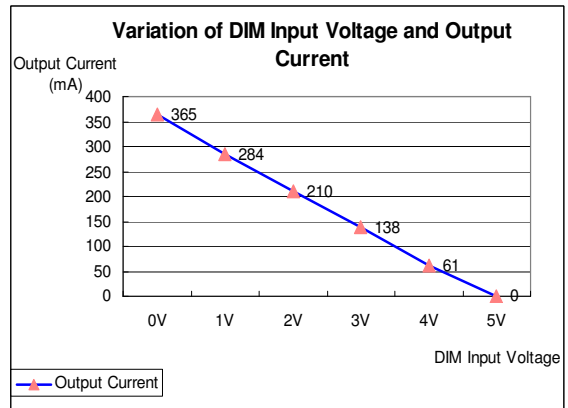


# App Notes

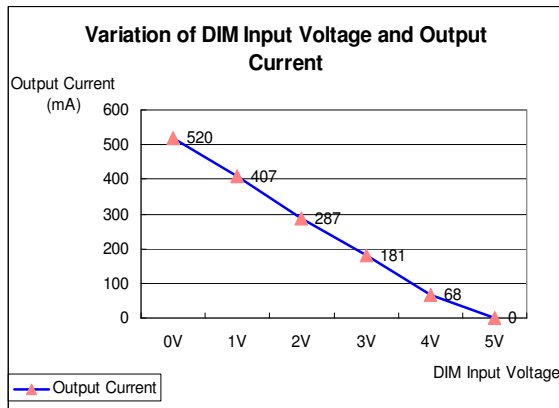
## PLED-300LF



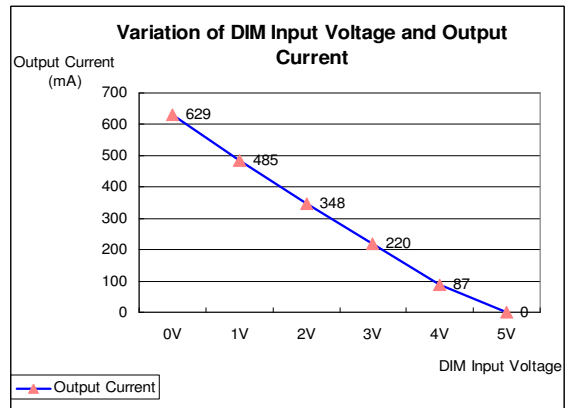
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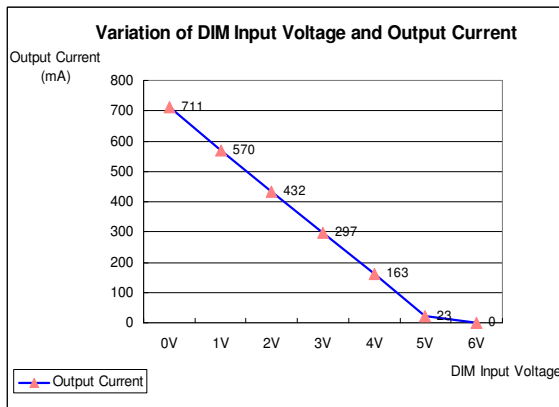
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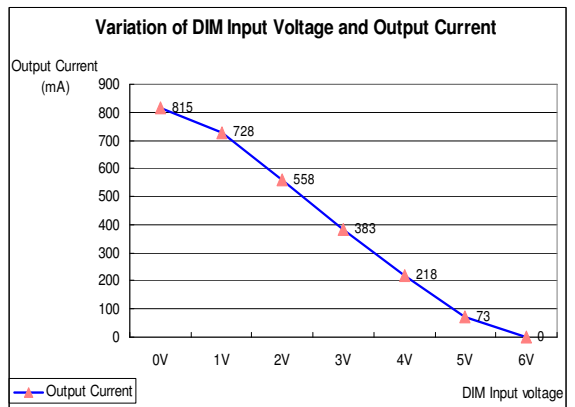
## PLED-600LF



## PLED-700LF

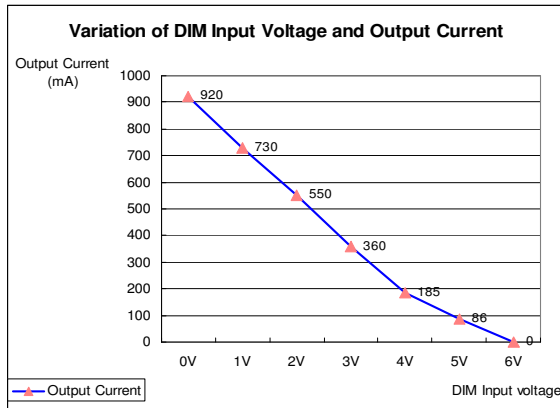


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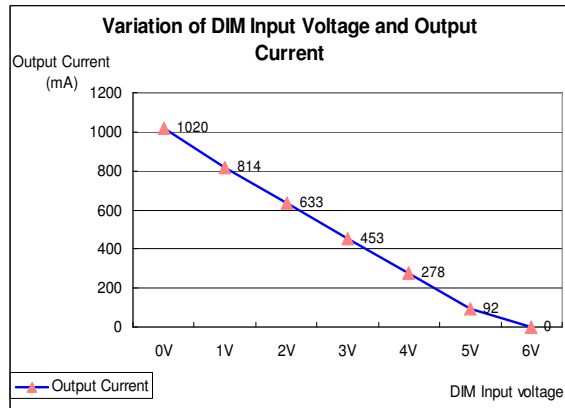


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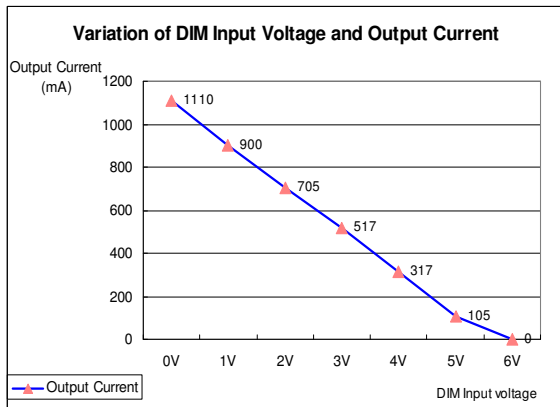
## PLED-900LF



## PLED-1000LF



## PLED-1100LF



## PLED-1200LF

