

DLDD Series

57 Watt Output BUCK LED Driver



Features

- LED Driver Current up to 1400mA
- Constant Current Output
- Digital PWM Dimming
- Analog Dimming Control
- High Efficiency up to 96%
- Continuous Short Circuit Protection
- DIP16 package and Wired Version
- High Reliability
- IP67 Protection
- Other currents on request.



Series	Control	Output Current [mA]	O/P	Max. Rated Output Voltage	Code
DLDD	- C = Current Control	1400 1000 700 350	S = Single	36 = 36V 60 = 60V	- P = PWM A = Analog Dimming W = Wired

Model	Input Voltage Range	Output Rated Voltage	Output Rated Current	Output Rated Power	%Eff. Typ.
DLDD-C0350S	4.5-60Vdc	2-57Vdc	350mA	20W	96%
DLDD-C0700S	4.5-60Vdc	2-57Vdc	700mA	40W	96%
DLDD-C1000S	4.5-60Vdc	2-57Vdc	1000mA	57W	96%
DLDD-C0700S	10-36Vdc	10-33Vdc	1400mA	46.2W	96%

Specifications

INPUT SPECIFICATIONS:

DC Input Voltage See Table
 Input Surge Voltage (1second) 1400mA/others.....50Vdc/65Vdc max.
 Input Filter Capacitor
 Under Voltage Lockout .. Power up..... 8.0Vdc/4.0Vdc typ
 Power down..... 6.9Vdc/3.7Vdc typ

OUTPUT SPECIFICATIONS:

Maximum Output Voltage See Table
 Constant Current Accuracy...(note1) ±5%max.
 Current Line Regulation(note 2)..... ±5%max.
 Current Load Regulation(note 3) ±5%max.
 Short Circuit Protection Constant Current, Auto Recovery
 Start up time..... 60 ms max.

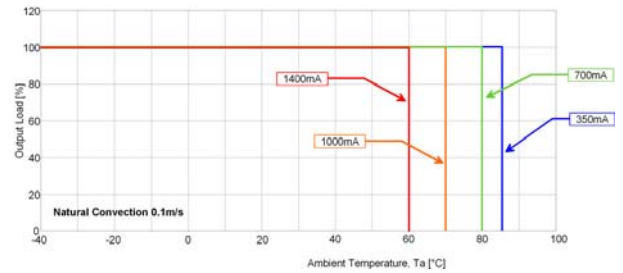
GENERAL SPECIFICATIONS:

Efficiency..... 96%
 Temperature Coefficient ±0.05% / °C(0 ~ 50°C)
 Isolation voltage non isolation
 Switching frequency.....
 1400mA/others..... 50-500kHz/300kHz typ.
 Operating Ambient Temperature-40 ~ 85°C see Derating Curve
 Case Temperature 100°C max.
 Cooling..... natural convection
 Storage Temperature..... -40 ~ 85°C
 Operating Humidity 10% ~ 95% RH non-condensing.
 Operating Altitude Sea Level to 3000m
 Vibration.....
 0~500Hz, 2G 60min./1cycle, period for 3hours, 3 axes
 Shock 30g peak, half sine, 6 axes
 MTBF,MIL-HDBK-217F(25°C Ta) 1.6M hrs.
 Dimensions 1.28x0.66 x0.4 Inches (32.5x16.8x10.2mm)
 Weight..... 18g
 Case Material..... Plastic Case

SAFETY AND EMISSIONS:

EMI.....EN55022/EN55015 Class B
 EMSEN61547,EN61000-4-2,3,4,5,6

DLDD Series Derating Curve

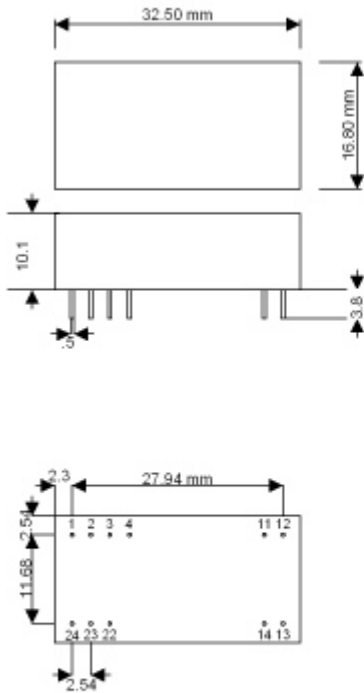


Note:

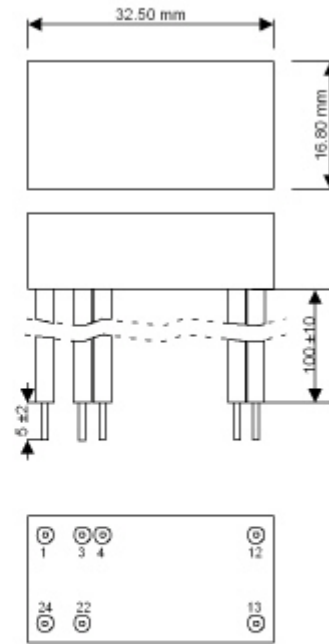
1. $3V < V_{in} - V_{out} < 30Vdc$ to keep current accuracy.
2. Current Line regulation is measured from High Line to Low Line.
3. Current Load regulation is measured from high to low operating voltage.
4. Acceptable customer modifications.

Mechanical Specification

DLDD-Cxxxx



DLDD-Cxxxx-W

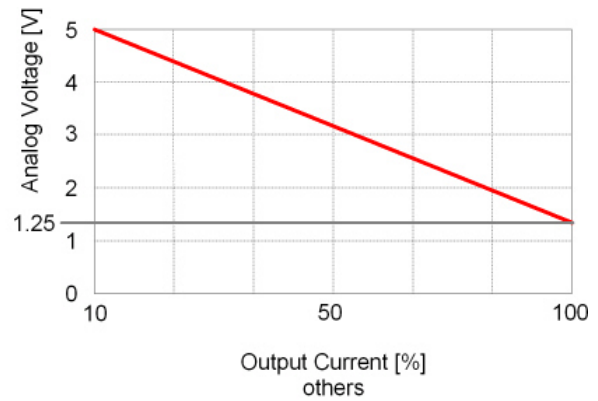
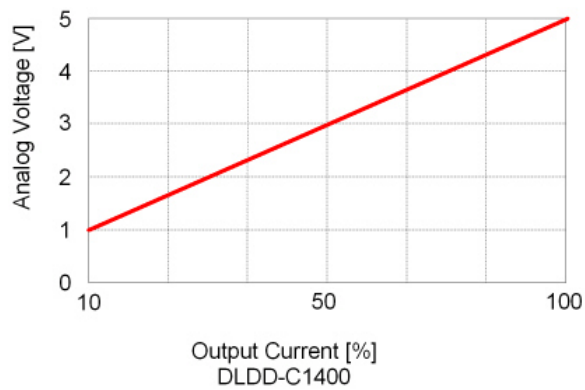


Connections

DLDD	DLDD-W	Function
1 & 2	1 (Black)	-Vin
3	3 (White)	Analog Dimming
4	4 (Green)	PWM / On / Off
11 & 12	12 (Blue)	-Vout
13 & 14	13 (Yellow)	+Vout
22	22 (Brown)	Vref / NP
23 & 24	24 (Red)	+Vin

NP: No Pin for DLDD-C1400

Dimming Control by Analog Voltage



Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use.

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