

DC-DC Converter Constant Current LED Driver

SPECIFICATIONS

Input Voltage	6~36VDC
Input Filter	Capacitor
Output Current Accuracy/Stability	±6% max
Maximum Capacitive Load	2.2uF
Operating Frequency	1000KHz
Ripple & Noise (20MHz BW)	1500mVp-p
Short Circuit Protection	Continuous
Over temperature Protection for 300~700mA model	
Shutdown when Internal IC Temperature at 150°C	
Auto-restart after cool down to 20°C	
Operating Temperature	
	-40°C to +85°C (300~500mA model)
	-40°C to +71°C (600~1500mA model)
Storage Temperature	-55°C to +125°C
Maximum Case Temperature	100°C
EMI Radiated Emissions	EN55015

All specifications are typical at nominal line, full load and 25°C;
unless otherwise noted.



FEATURES

- ◆ EFFICIENCY UP TO 96%
- ◆ WIDE INPUT AND OUTPUT VOLTAGE RANGE
- ◆ INPUT VOLTAGE UP TO 36V
- ◆ PWM DIMMING CONTROL
- ◆ SHORT CIRCUIT PROTECTED
- ◆ OVER TEMPERATURE PROTECTED FOR 300~700mA MODEL
- ◆ INTERNAL SMD TECHNOLOGY
- ◆ FULLY ISOLATED PLASTIC CASE WITH IP67 LEVEL
- ◆ UL 94V-0 PACKAGE MATERIAL
- ◆ RoHS COMPLIANT
- ◆ 3 YEARS WARRANTY

Model Number	INPUT NOMINAL VOLTAGE (VDC)	INPUT VOLTAGE RANGE (VDC)	OUTPUT VOLTAGE RANGE (VDC)	OUTPUT CURRENT RANGE (mA)	DIMMING/DC CONTROL	EFF. (% ,MAX)
DLSD-0030xy	24	9~36	2~32	0~300	PWM	95
DLSD-0035xy	24	9~36	2~32	0~350	PWM	95
DLSD-0050xy	24	9~36	2~32	0~500	PWM	95
DLSD-0060xy	24	9~36	2~32	0~600	PWM	95
DLSD-0070xy	24	9~36	2~32	0~700	PWM	95
DLSD-0030Sy	24	9~32	2~28	0~300	PWM	95
DLSD-0035Sy	24	9~32	2~28	0~350	PWM	95
DLSD-0050Sy	24	9~32	2~28	0~500	PWM	95
DLSD-0060Sy	24	9~32	2~28	0~600	PWM	95
DLSD-0070Sy	24	9~32	2~28	0~700	PWM	95
DLSD-0100xy	24	6~36	2~30	0~1000	PWM/DC	96
DLSD-0120xy	24	6~36	2~30	0~1200	PWM/DC	96
DLSD-0150xy	24	6~36	2~30	0~1500	PWM/DC	96

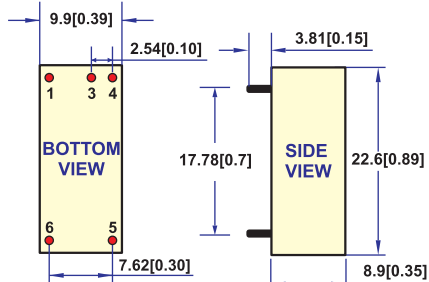
Ordering Information:

Package Style x = D = Pins ; DN = w/o pin 3 ; W = Wired ; WN = w/o Dim ; S = SMD

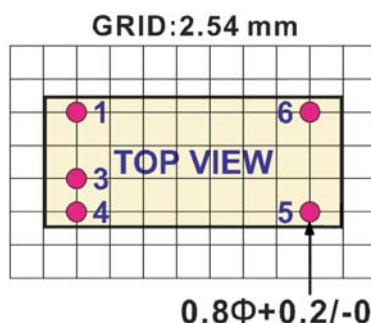
Suffix "y" = blank or A~Z for market purpose

MECHANICAL DRAWING (Unit: mm)

Package D & DN for 300~700mA model



All dimensions are in mm[inches]

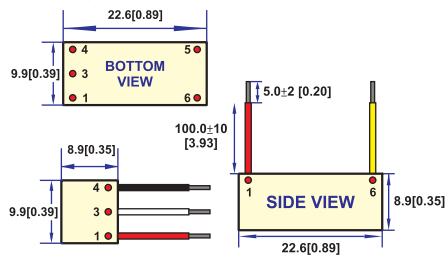


PINOUT	COMMENT
1	+Vin DC Supply
3	PWM DIM ON/OFF/PWM Dimming Leave open if not used
4	-Vin Don't connect to -Vout
5	-Vout LED - Connection
6	+Vout LED + Connection

NOTE:
Pin Size is Tolerance 0.60Φ ±0.05mm.
All dimensions are in mm [inches]
Tolerance .X or .XX= ±0.5mm.
Pin 3 = No Pin for Package DN

MECHANICAL DRAWING (Unit: mm)

Package W & WN for 300~700mA model

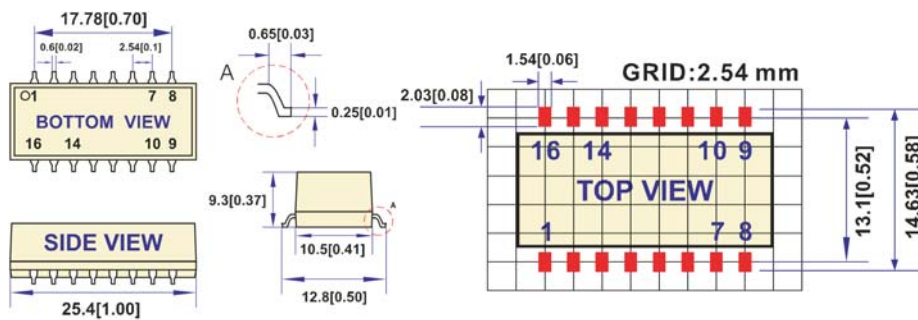


- All dimensions are in mm [inches]
 1. Case Tolerance .X or .XX=±0.5mm
 2. Wire outside diameter= 1.6mm ±0.1
 3. Wire core diameter= 0.75mm ±0.1
 4. Wire is UL 3385/CAS TEM listed
 #22AWG / 300V / 105°C Rated
 5. Pin 3 = No Wire for package WN

All dimensions are in mm[inches]

PINOUT	COMMENT
1 (Red)	+Vin DC Supply
3 (White)	PWM DIM ON/OFF/PWM Dimming Leave open if not used
4 (Black)	-Vin Don't connect to -Vout
5 (Blue)	-Vout LED - Connection
6 (Yellow)	+Vout LED + Connection

Package S for 300~700mA model

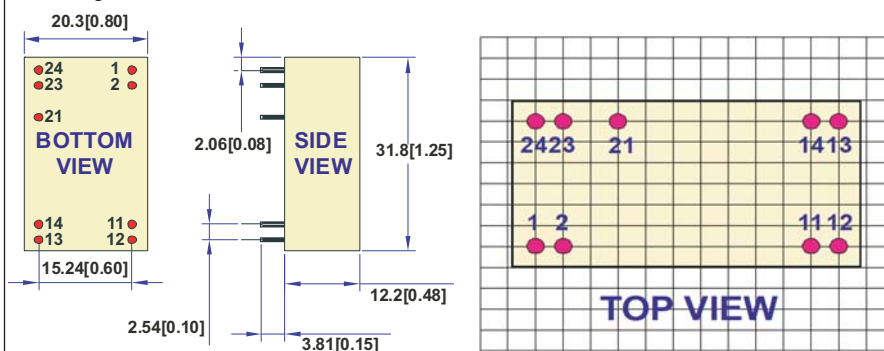


All dimensions are in mm[inches]

PINOUT	COMMENT
1	+Vin DC Supply
14	PWM DIM ON/OFF/PWM Dimming Leave open if not used
16	-Vin Don't connect to -Vout
9 & 10	-Vout LED - Connection
7 & 8	+Vout LED + Connection

NOTE:
 Pin Size is Tolerance 0.6Φ ±0.05mm
 All dimensions are in mm [inches]
 Tolerance .X or .XX= ±0.5mm

Package D for 1000~1500mA model

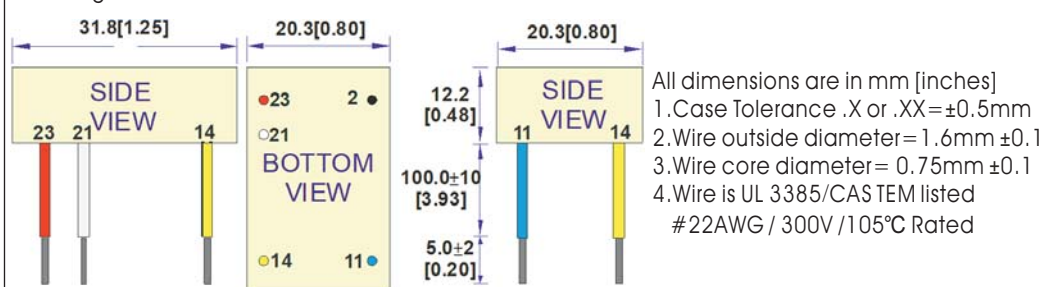


All dimensions are in mm[inches]

PINOUT	COMMENT
1 & 2	-Vin Don't connect to -Vout
11 & 12	-Vout LED - Connection
13 & 14	+Vout LED + Connection
21	PWM/DC DIM ON/OFF/PWM/DC Dimming Leave open if not used
23 & 24	+Vin DC Supply

NOTE:
 Pin Size is Tolerance 0.60Φ ±0.05mm
 All dimensions are in mm [inches]
 Tolerance .X or .XX= ±0.5mm

Package W for 1000~1500mA model

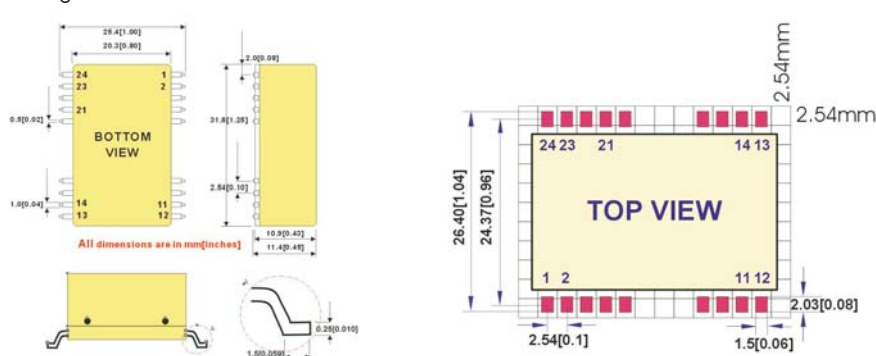


All dimensions are in mm[inches]

- All dimensions are in mm [inches]
 1. Case Tolerance .X or .XX=±0.5mm
 2. Wire outside diameter= 1.6mm ±0.1
 3. Wire core diameter= 0.75mm ±0.1
 4. Wire is UL 3385/CAS TEM listed
 #22AWG / 300V / 105°C Rated

PINOUT	COMMENT
2 (Black)	-Vin Don't connect to -Vout
11 (Blue)	-Vout LED - Connection
14 (Yellow)	+Vout LED + Connection
21 (White)	PWM/DC DIM ON/OFF/PWM/DC Dimming Leave open if not used
23 (Red)	+Vin DC Supply

Package S for 1000~1500mA model



All dimensions are in mm[inches]

PINOUT	COMMENT
1 & 2	-Vin Don't connect to -Vout
11 & 12	-Vout LED - Connection
13 & 14	+Vout LED + Connection
21	PWM/DC DIM ON/OFF/PWM/DC Dimming Leave open if not used
23 & 24	+Vin DC Supply

NOTE:
 All dimensions are in mm [inches]
 Tolerance .X or .XX= ±0.5mm