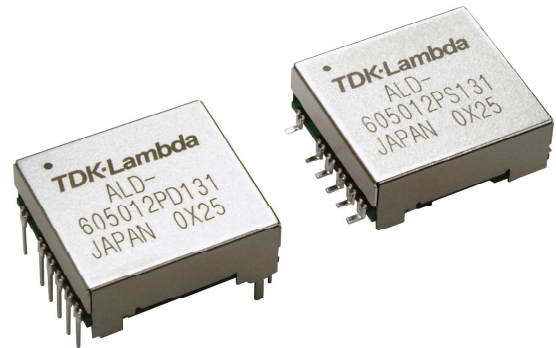


## 1 to 6 output LED Backlighting DC-DC Converter

### Features

- ◆ One to Six Strings in One Package
- ◆ 12VDC Input
- ◆ Analog, Resistive, or PWM Dimming
- ◆ Small Size
- ◆ Through Hole or Surface Mount
- ◆ Off the shelf solution



### Key Market Segments & Applications

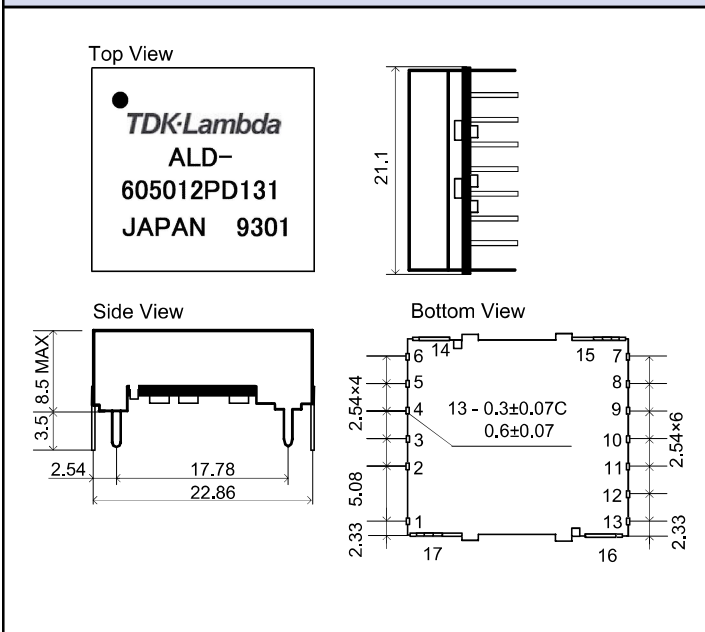


Specifications		
Model	Through Hole Version: ALD-605012PD131 Surface Mount Version: ALD-605012PS131	
Number of LED Strings	-	1, 2, 3 or 6 (user parallelable)
DC Input	VDC	10.8 - 13.2VDC
Input Curr. Max. (normal/inhibited)	A	1.4 / 0.001
Output Current (each string)	mA	50mA (300mA if all 6 strings are paralleled)
PWM Dimming Frequency	Hz	230Hz
PWM Dimming	V	0 to 3.3V
Analog Dimming (Dark-Light) Vbr	VDC	1.6V to 3.8V
Analog Dimming (Dark-Light) Rbr	kΩ	1 to 10kΩ
Remote On/Off (Vrmt)	VDC	OFF: 0V - 0.4V or floating, ON: 2.5V - Vin
Output Voltage	VDC	38V Maximum, +Vin + 2V Minimum
Overvoltage Alarm	-	5V if any one string is open
Operating Temperature	°C	-30 to +80°C (See page 2 for derating curves)
Storage Temperature	°C	-40 to +85°C
Max. Humidity (non condensing)	%RH	95%RH (Storage or Operating)
Cooling	-	Convection
Input to Output Isolation	-	None
Vibration	-	588m/s <sup>2</sup> (60G) 11ms Half-sine waveonce each axis X,Y,Z,-X,-Y,-Z total 6 times
Shock	-	5~10Hz Amplitude 10mm10~200Hz Accelerated Velocity 21.6m/s <sup>2</sup> (2.2G)
Weight (Typ)	g	5.5g
Size (LxWxH)	mm	22.86 x 21.1 x 8.5mm (8.8mm SMT version)
Warranty	yr	One Year

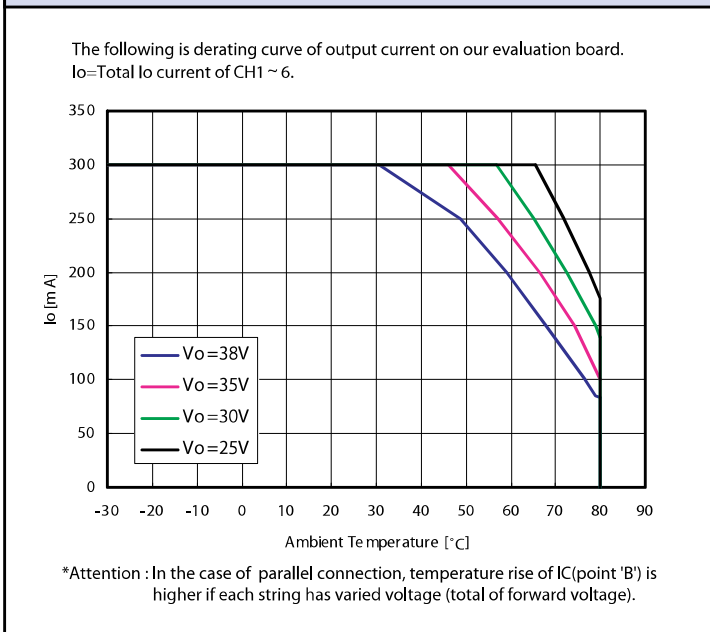
Note: See Installation Manual for full details, test methods of parameters and application notes

## Last Time Buy March 2019

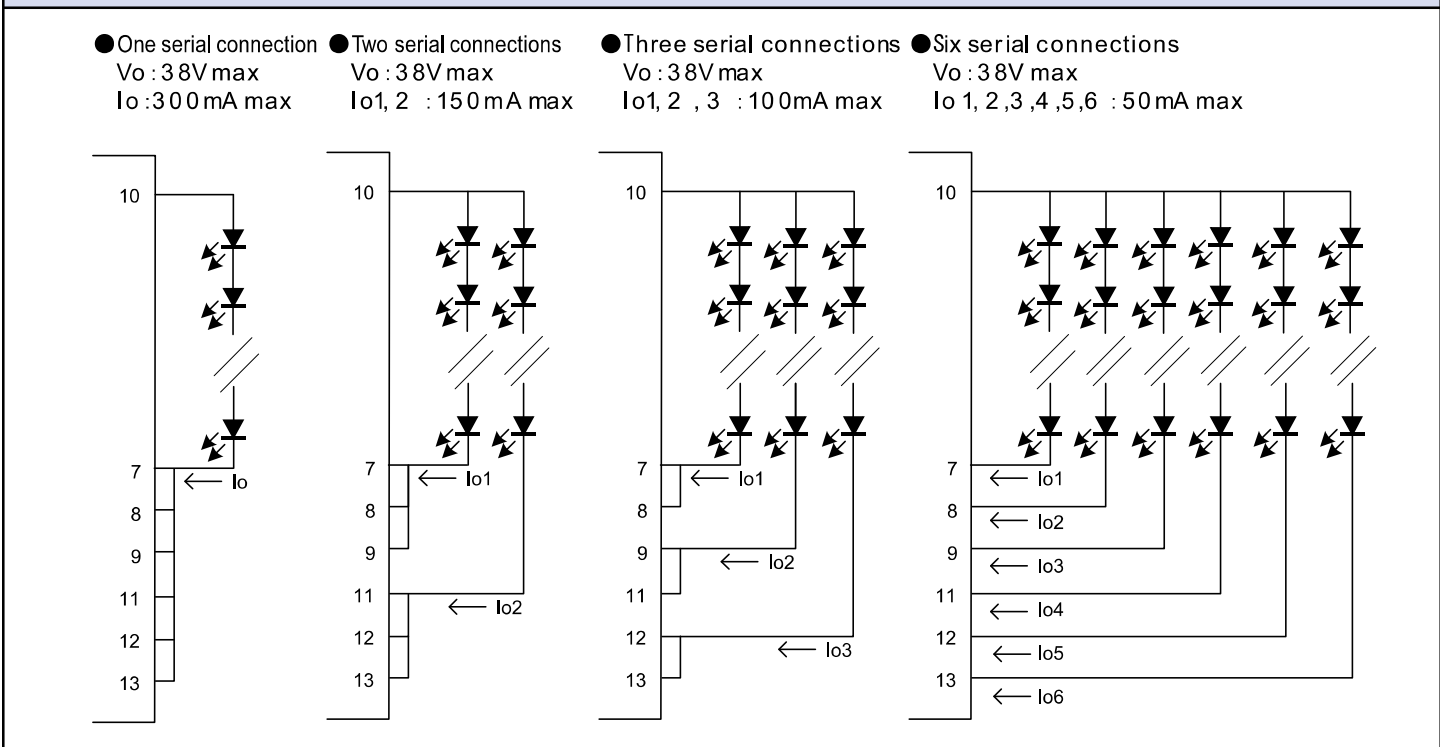
## Outline Drawing (Through Hole Version)



## Derating Curves



## Typical Applications



For Additional Information, please visit  
[us.tdk-lambda.com/lp/products/ald6-series.htm](http://us.tdk-lambda.com/lp/products/ald6-series.htm)



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