

## Product List

OB3Z12A

## Description

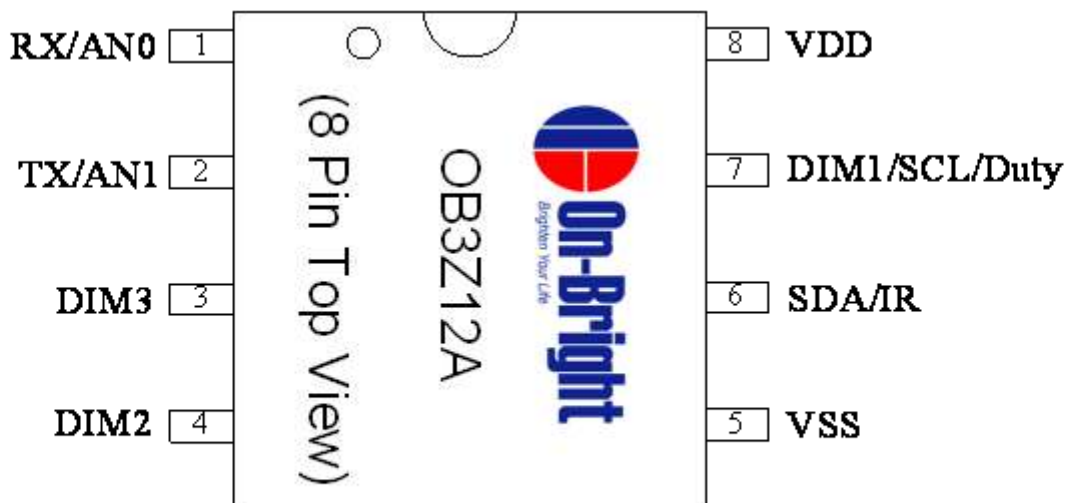
The OB3Z12A is a LED lighting controller. It has hardware dimming mechanism supporting up to 3-channel dimming control. The control interfaces include Liner DC, VR, Key/Button, PWM duty and IR, various digital and analog dimming control methods. The OB3Z12A equips with serial communication interfaces for inter-connection to host or remote controllers. The on-chip non-volatile memory contains the system preset parameters and configurations.

## Features

- Operating Voltage: 4.5V ~ 5.5V
- 3-ch PWM dimming control output
- 1 analog VR dimming control input
- 1 analog DC-in dimming control input
- 1 digital PWM duty dimming control input
- 1 digital IR remote dimming control input
- Serial interfaces: UART, I2C.
- Package type: 8-SOP.

## Pin Configuration

8-SOP



## Pin Description

Pin	Symbol	I/O	Description
1	RX/AN0	I	VR, analog diming control input. Serial Receiver Input
2	TX/AN1	I/O	Liner analog diming control input. Serial Transmitter Output
3	DIM3	O	PWM dimming output ch-3
4	DIM2	O	PWM dimming output ch-2
5	VSS	I	Power supply
6	SDA/IR	I/O	I2C Data. IR input
7	DIM1/SCL/Duty	I/O	I2C Clock. PWM dimming output ch-1. Duty dimming control input
8	VDD	I	Power Supply

## Operating Conditions

Symbol	Description	Min.	Typ.	Max.	Unit.	Remarks
TA	Operating temperature	-40	25	85	°C	Ambient temperature under bias
VDD	Supply voltage	4.5		5.5	V	

## DC Characteristics

$T_A = -40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$ ,  $V_{dd} = 5.0\text{V}$

Symbol	Parameter	Valid	Min	Max	Units	Conditions
<b>VIL1</b>	Input Low-voltage	DIMx, SDA,SCL,Tx,Rx	-0.5	0.8	V	Vdd=5V
<b>VIH1</b>	Input High-voltage	DIMx, SDA,SCL,Tx,Rx	2.0	$V_{CC} + 0.5$	V	
<b>VOL</b>	Output Low-voltage	DIMx, SDA,SCL,Tx,Rx		0.4	V	IOL=4.9mA
<b>VOH1</b>	Output High-voltage using Strong Pull-up	DIMx, SDA,SCL,Tx,Rx	90% $V_{CC}$		V	IOH= -4.6mA
			2.4		V	IOH= -14mA
<b>VOH2</b>	Output High-voltage using Weak Pull-up	DIMx, SDA,SCL,Tx,Rx	2.4		V	IOH= -250uA
<b>IIL</b>	Logic 0 Input Current	DIMx, SDA,SCL,Tx,Rx		-75	uA	Vin= 0.45V
<b>ITL</b>	Logical Transition Current	DIMx, SDA,SCL,Tx,Rx		-650	uA	Vin= 2.0V
<b>ILI</b>	Input Leakage Current	DIMx, SDA,SCL,Tx,Rx		±10	uA	0.45V<Vin<Vcc
<b>ICC</b>	Power Supply Current	VDD		5	mA	Vdd =5V 25 °C

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