Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

LCD Backlight Driver

Model

LS655-RH

RoHS COMPLIANT

5 Volt Input

Dual Tube CCFT Inverter (4W)

Brightness Control

Physical Specifications

Dimensions:	105mm x 25mm x 10mm (4.13" x 0.98" x 0.39")
Operating Temp:	0 to 60°C, convection cooling
Relative Humidity:	20% to 90%, non-condensing
Storage:	-20 to 85°C/5-95% RH
Impact Resistance:	50G half wave per 2 msec
Vibration Resistance:	10-55-10 Hz/min @ 1.5mm

Input Specifications*

Item	Condition	Standard
Input Voltage		
Rated	—	5 Vdc
Tolerance	Continuous Operation	4.75 V - 5.25 V
	Starting Condition (Discharge Starting Voltage)	4.75 V - 5.25 V
Max. Input Current	V_{IN} = 5 Vdc Luminance @ Max.	950 mA Typ.
Max. Input Power	V_{IN} = 5 Vdc Luminance @ Max.	4.8 W
DC-Bright	I_{OUT} = Max I_{OUT} = Min	1.9 V 1.5 V
DC-Resistor	I_{OUT} = Max I_{OUT} = Min	10 kΩ 0 kΩ

*Above Specifications Occur @ 25 ± 5°C

Output Specifications*

Item	Condition	Standard MIN	TYP	MAX
Output Voltage (Vrms)	V_{IN} = 5 Vdc	—	1000	—
Tube Current for per Lamp (mArms)	Luminance @ Max.(V_{BR} = 1.9 V @ 10 kΩ)	—	5.2	—
	Luminance @ Min. (V_{BR} = 1.5 V @ 0 kΩ)	—	2.2	—
Max. Power Output for 2 Lamps (W)	V_{IN} = 5 Vdc/Luminance @ Max.	—	4.0	—
Ignition Frequency (kHz)	Luminance @ Max.	—	55	—

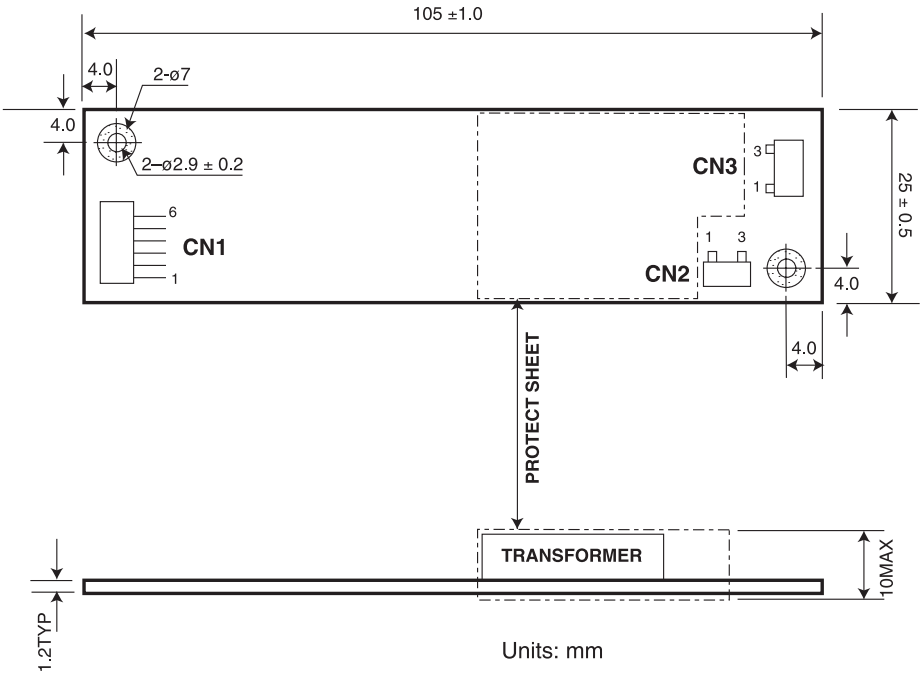
*Above specifications occur @ 25 ± 5°C.

Model

LS655-RH

Luminance Variance

Item	Condition	Applied Voltage	Output Current
Luminance @ Max.	Btwn. pin 6 and GND, or pin 5 & 6	Vbr = 1.9 V or 10 kΩ	5.2 mA (one lamp)
Luminance @ Min.	Btwn. pin 6 and GND, or pin 5 & 6	Vbr = 1.5 V or 0 kΩ	2.2 mA (one lamp)



Units: mm

TAIYO YUDEN

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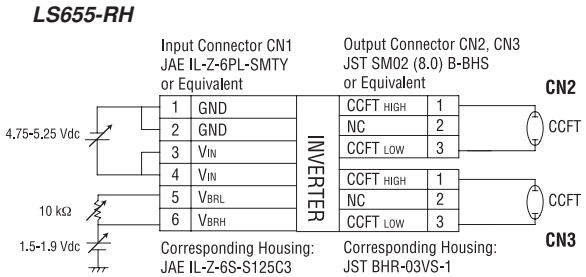
Model

LS655-RH

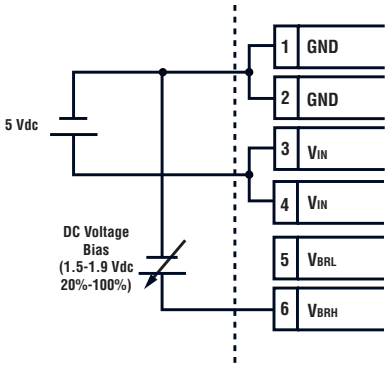
Tech Notes

Connection Diagram

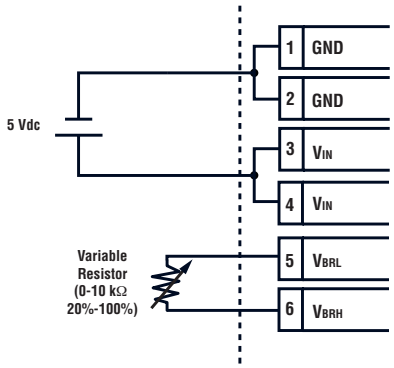


DC Bright Control Method*

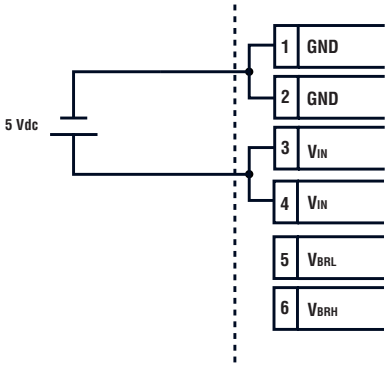
Maximum output current can be adjusted by applying bias voltage or using a variable resistor as shown below.



dimming by applying DC bias voltage



dimming by using a variable resistor



preset to maximum brightness
(continuous)

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