

Model LS655

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	—	5 Vdc
Rated 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

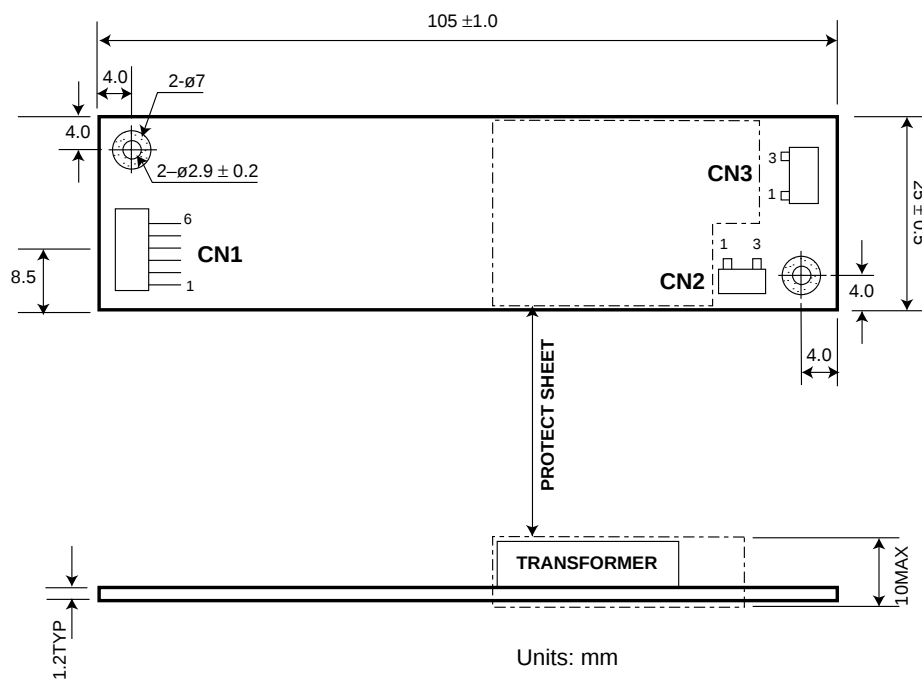
Output Specifications*

Item	Condition	Standard		
		MIN	TYP	MAX
Output Voltage (Vrms)	V _{IN} = 5 Vdc	—	1000	—
Tube Current for per Lamp (mArms)	Luminance @ Max. (V _{CONT} = 1.9 V @ 10 kΩ) Luminance @ Min. (V _{CONT} = 1.5 V @ 0 kΩ)	—	5.2 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.

LS655

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



Units: mm



world leaders in materials and electronics technology

(800) 493-6835 www.t-yuden.com powerproducts@t-yuden.com

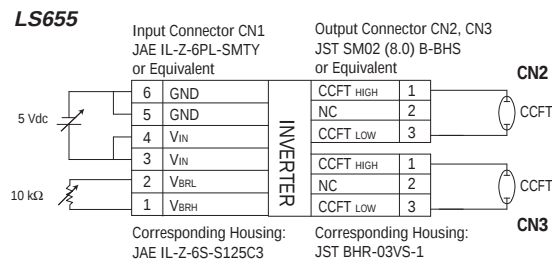


FM 32227

Model LS655

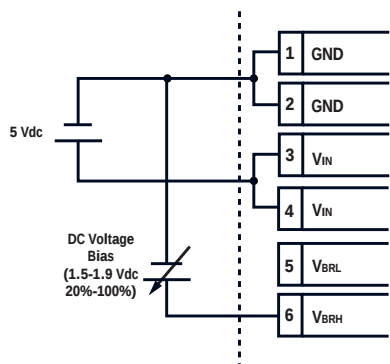
Tech Notes

Connection Diagram

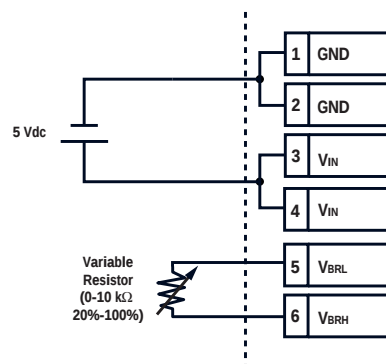


DC Bright Control Method*

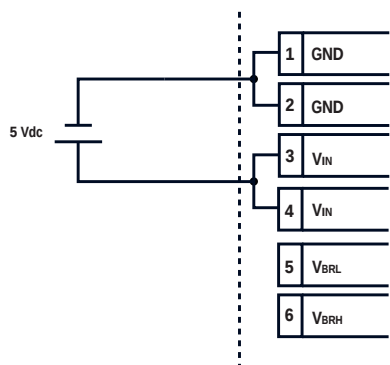
Maximum output current can be adjusted by applying bias voltage or using a variable resistor as shown below.



dimming by applying DC bias voltage



dimming by using a variable resistor



preset to maximum brightness
(continuous)

© Copyright 2001 Taiyo Yuden (U.S.A.), Inc. Specifications subject to change without notice.



TAIYO YUDEN

world leaders in materials and electronics technology

Taiyo Yuden (U.S.A.), Inc.

1770 La Costa Meadows Drive, San Marcos, CA 92069

(760) 510-3200 / Fax: (760) 471-4021

(800) 493-6835

www.t-yuden.com

powerproducts@t-yuden.com



FM 32227