

LCD Backlight Driver

Model S655-RH

5 Volt Input

Dual Tube CCFT Inverter (4W)

Brightness Control



Physical Specifications

105mm x 25mm x 10mm (4.13" x 0.98" x 0.39") Dimensions:

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 Tolerance	— Continuous Operation Starting Condition (Discharge Starting Voltage)	5 Vdc 4.75 V - 5.25 V 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	louт = Max louт = Min	1.9 V 1.5 V
DC-Resistor	Iouт = Max Iouт = Min	10 kΩ 0 kΩ

^{*}Above Specifications Occur @ 25 ± 5°C

Output Specifications*

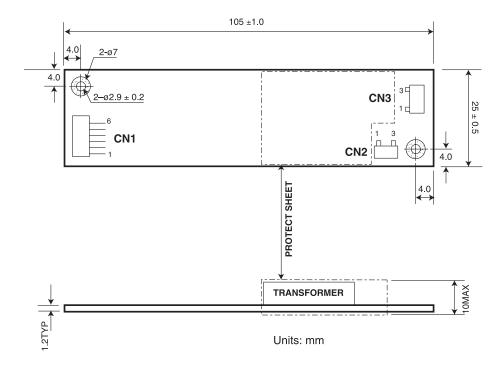
Item	Condition	Standard		
		MIN	TYP	MAX
Output Voltage (Vrms)	V _{IN} = 5 Vdc	_	1000	_
Tube Current for per Lamp (mArms)	Luminance @ Max.(VBR = 1.9 V @ 10 k Ω) Luminance @ Min. (VBR = 1.5 V @ 0 k Ω)	_	5.2 2.2	_
Max. Power Output for 2 Lamps (W)	$V_{IN} = 5 \text{ Vdc/Luminance } @ \text{Max.}$	_	4.0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

^{*}Above specifications occur @ 25 ± 5 °C.



Luminance Variance

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



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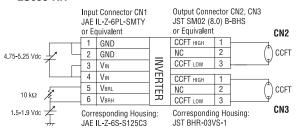




Tech Notes

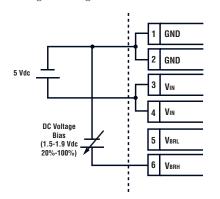
Connection Diagram

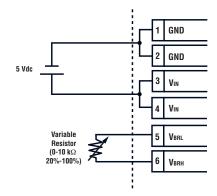
LS655-RH



DC Bright Control Method*

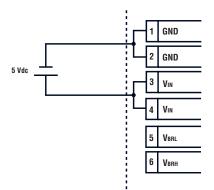
Maximum output current can be adjusted by applying bias voltage or using a variable resistor as shown below.





dimming by applying DC bias voltage

dimming by using a variable resistor



preset to maximum brightness (continuous)

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