

Model LS340

LCD Backlight Driver

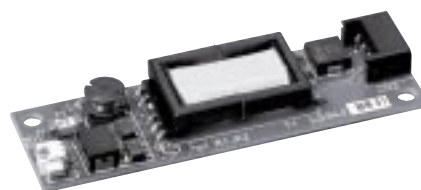
12 Volt Input

Single Tube CCFT Inverter

without Brightness Control

Physical Specifications

Dimensions:	20mm x 60mm x 6.5mm (0.787" x 2.36" x 0.256")
Weight:	12g (0.422 oz.)
Operating Temp:	0 to 55°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	—	12 Vdc
Tolerance	Continuous Operation	10.8 Vdc - 13.2 Vdc
	Starting Condition (Discharge Starting Voltage)	10.8 Vdc - 13.2 Vdc
Max. Input Current	$V_{IN} = 13.2 \text{ Vdc}$	250 mArms
Max. Rush Current	$V_{IN} = 13.2 \text{ Vdc}$	600 mA/0.3 mS
Max. Input Power	$V_{IN} = 13.2 \text{ Vdc}$	3.3 W

*Above specifications occur @ $25 \pm 5^\circ\text{C}$.

Output Specifications*

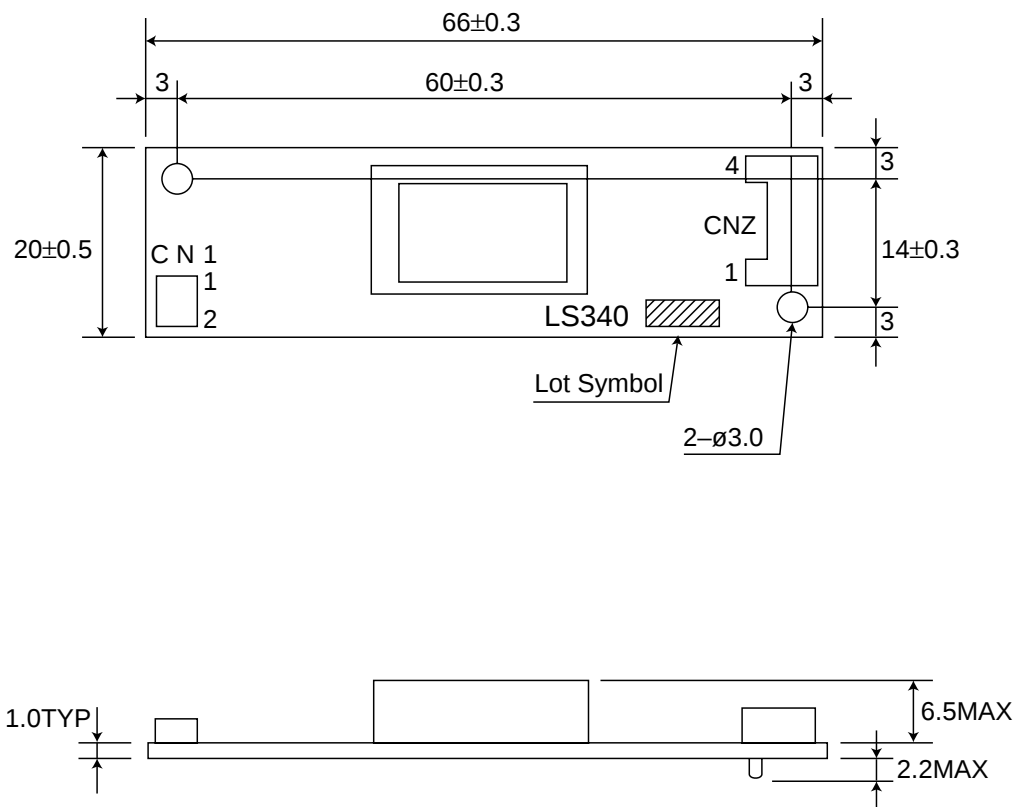
Item	Condition	Standard		
		MIN	TYP	MAX
Output Voltage (Vrms)	—	—	1000	—
Tube Current (mArms)	$V_{IN} = 12 \text{ Vdc}$	3.5	4.5	5.5
Max. Output Rated (W)	$V_{IN} = 13.2 \text{ Vdc}$	—	—	2.7
Ignition Frequency (kHz)	Luminance @ Max.	—	45	—

*Above specifications occur @ $25 \pm 5^\circ\text{C}$ & $V_{IN} = 10.8 - 13.2 \text{ Vdc}$.

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Insulating Withstand Voltage

Item	Rating Description	
Insulating Withstand Voltage	Primary - Secondary	1.5 kVA Impulse
Insulating Resistance	Primary - Secondary	500 Vdc
	Winding - Core	More than 100 MΩ



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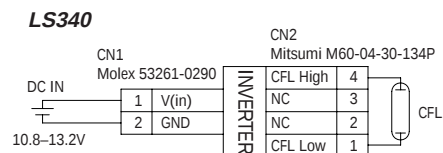
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Tech Notes

Connection Diagram



Mean Time Between Failures (MTBF)

By using the MIL-HDBK 217E Condition Ground Benign method, the MTBF for the LS340 is calculated at 1,357,773 hours.



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