

Model LS300

12 Volt Input

Generic Board Mount

Physical Specifications

Dimensions:	18mm x 70mm x 6.5mm (0.709" x 2.756" x 0.256")
Weight:	12g (0.423 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	—	12 Vdc
Tolerance	Continuous Operation Starting Condition (Discharge Starting Voltage)	10.8 Vdc - 13.2 Vdc 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 Max. 300 μS Max.
Input Power	$V_{IN} = 13.2 \text{ Vdc}$	3.3 W Max.

* Above specifications occur @ 25 $\pm$ 5°C.

Output Specifications*

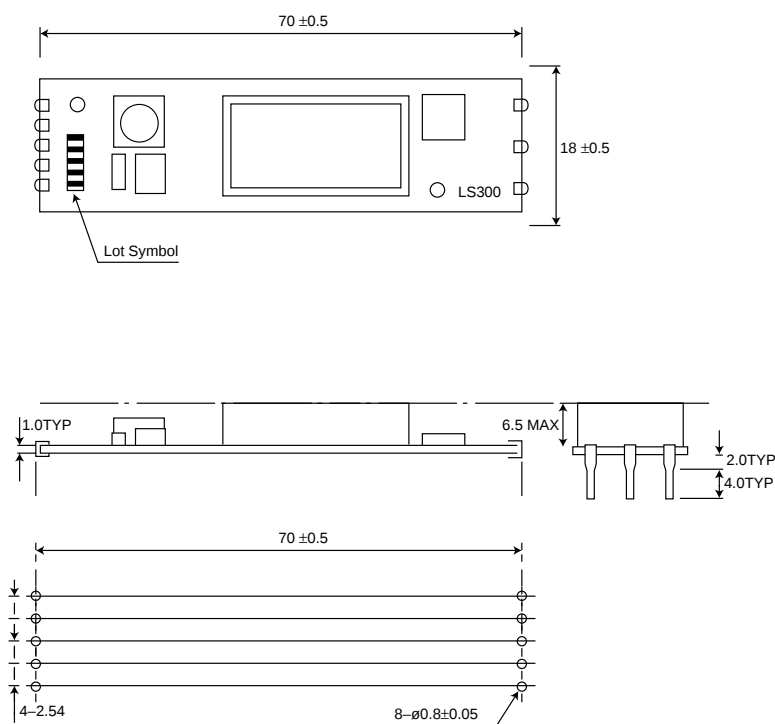
Item	Condition	Standard MIN	TYP	MAX
Non-Loaded Output Voltage (Vrms)	—	—	1000	—
Tube Current (mArms)	$V_{IN} = 13.2 \text{ Vdc}$	3.5	4.5	5.5
Max. Power Output (W)	$V_{IN} = 13.2 \text{ Vdc}$	—	—	2.7
Ignition Frequency (kHz)	—	—	45	—

* Above specifications occur @ 25 $\pm$ 5°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 Winding - Core	500 Vdc More than 100 MΩ



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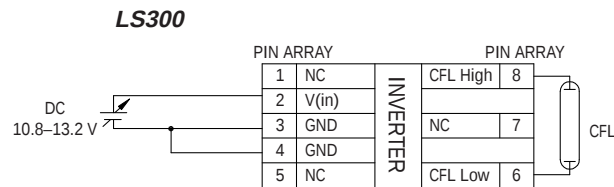
FM 32227

Model

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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 LS300 is calculated at 1,357,773 hours.

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