

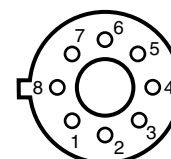


FLH0002H/883 Product Data Sheet

High Current, Linear Operational Amplifier
In A Hermetic 8-Lead Package



Pin Connections
Top View



Pin Connection

Pin 1: V_{1+}
Pin 2: V_{2+}
Pin 3: E_3
Pin 4: Output
Pin 5: E_4
Pin 6: V_{2-}
Pin 7: V_{1-}
Pin 8: Input

HIGH CURRENT, LINEAR OPERATIONAL AMPLIFIER IN A HERMETIC 8-LEAD PACKAGE

DESCRIPTION:

Film Microelectronics has developed this Current Amplifier for use as a buffer.

Small size and high reliability make these devices suitable for use in industrial, aerospace, and military applications.

FEATURES:

- 400 mA Output Current
- High Input Impedance - 400 k Ω Typical
- Wide Power Bandwidth - DC To 30 MHz
- High Slew Rate - 200V/ μ s Typical
- Low Harmonic Distortion
- Available As DCSS SMD 7801301XA
- Additional Screening Available

ABSOLUTE MAXIMUM RATINGS @ $T_C = 25^\circ\text{C}$, unless otherwise stated

Parameter	Rating	Units
V_S Supply Voltage	± 22	V
V_{CM} Input Voltage	± 22	V
P_D Power Dissipation	600	mW
θ_{JC} Thermal Resistance Junction to Case	40	$^\circ\text{C}/\text{W}$
T_J Operating Junction Temperature	-55 to +175	$^\circ\text{C}$
T_{STG} Storage Temperature	-65 to +150	$^\circ\text{C}$
Lead Temperature (10 sec)	300	$^\circ\text{C}$



RECOMMENDED OPERATING CONDITIONS

Parameter	Range	Units
T_A Ambient Operating Temperature Range	-55 to +125	$^\circ\text{C}$

e-mail: www.fmisales@satc.com
Website: www.filmmicroelectronics.com



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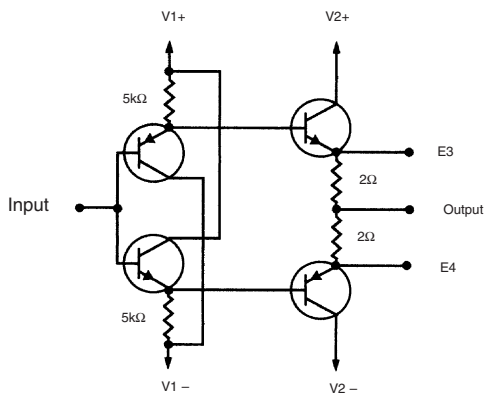
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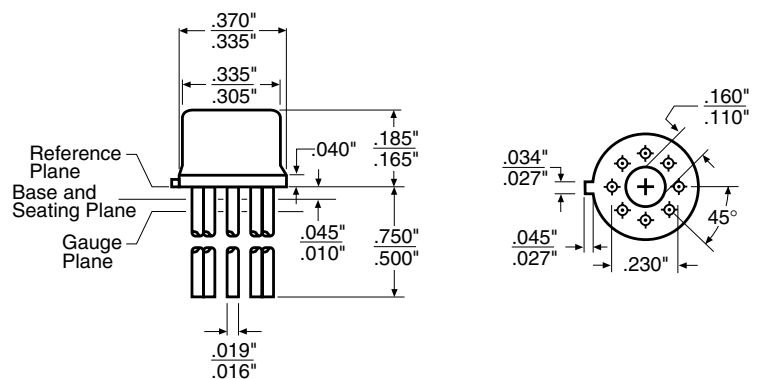
Electrical Characteristics @ $T_A = 25^\circ\text{C}$, $V_S = \pm 12\text{Vdc}$, unless otherwise stated

Parameter		Min.	Max.	Units	Test Conditions
V _{OS}	Output Offset Voltage	-30	+30	mV	R _S = 300Ω, R _L = 1kΩ, T _A = -55°C to +125°C
I _{IO}	Input Offset Current	-10	+10	μA	R _S = 10kΩ, R _L = 1kΩ, T _A = -55°C to +125°C
Z _{IN}	Input Impedance	180	-	kΩ	V _{IN} = 1.0V _{RMS} , R _S = 200kΩ, R _L = 1kΩ, f = 1.0kHz
A _V	Voltage Gain	0.95	-	V/V	V _{IN} = 3.0V _{PP} , R _S = 10kΩ, R _L = 1kΩ, f = 1.0kHz, T _A = -55°C to +125°C
V _O	Output Voltage Swing	-10 -9.5	+10 +9.5	V	V _{IN} = ±12V, R _L = 1kΩ V _{IN} = ±10V, R _L = 100Ω, V _S = ±15V
Z _{out}	Output Impedance	-	10	Ω	V _{IN} = 1V _{RMS} , R _S = 10kΩ, R _L = 50Ω, f = 1.0kHz
I _{CC}	Supply Current	-	±10.0	mA	R _S = 10kΩ, R _L = 1kΩ
t _r	Rise Time	-	12	ns	ΔV _{IN} = 100mV, R _L = 50Ω

SCHEMATIC



MECHANICAL OUTLINE



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