FILM MICROELECTRONICS INCORPORATED
A SatCon Company

FLH0101/A

PRODUCT DATA SHEET

5 AMP LINEAR WIDE BAND POWER OPERATIONAL AMPLIFIER IN A HERMETIC 8-LEAD TO-3 PACKAGE

ABSOLUTE MAXIMUM RATINGS @ T_C = 25°C, unless otherwise stated

Parameter		Rating	Units
V_S	Supply Voltage	±22	V
V_{CM}	Input Voltage Range	±20, but < $\pm V_S$	V
V_{IN}	Differential Input Voltage	±40, but < $\pm V_S$	V
$I_{O(PK)}$	Peak Output Current (50 ms pulse)	5	A
θ_{JC}	Thermal Resistance Junction to Case	2	°C/W
P_D	Power Dissipation (derate linearly @ 2°C/W to 0 @ 150°C)	62	W
T_J	Operating Junction Temperature	-55 to +150	°C
T_{STG}	Storage Temperature	-65 to +150	°C
	Lead Temperature (10 sec)	300	°C

MECHANICAL OUTLINE

TERMINAL CONNECTIONS

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ELECTRICAL CHARACTERISTICS @ T_A = 25°C, unless otherwise stated

Parameter		Min.	Max.	Units	Test Conditions
V_{IO}	Input Offset Voltage **(Device type FLH0101A)**		3 7	mV	T_A = +25°C T_A = -55°C to +125°C
V_{IO}	Input Offset Voltage **(Device type FLH0101)**		10 15	mV	T_A = +25°C T_A = -55°C to +125°C
I_{IB}	Input Bias Current **(Device type FLH0101A)**		300 300	pA nA	T_A = +25°C T_A = -55°C to +125°C
I_{IB}	Input Bias Current **(Device type FLH0101)**		1000 1000	pA nA	T_A = +25°C T_A = -55°C to +125°C
I_{IO}	Input Offset Current **(Device type FLH0101A)**		75 75	pA nA	T_A = +25°C T_A = -55°C to +125°C
I_{IO}	Input Offset Current **(Device type FLH0101)**		250 250	pA nA	T_A = +25°C T_A = -55°C to +125°C
A_{VOL}	Large Signal Voltage Gain	50	-	V/mV	V_O = ±10V, R_L = 10Ω
V_O	Output Voltage Swing	±11.7 ±11	-	V	R_{SC} = 0Ω, A_V = 1, R_L = 100Ω R_{SC} = 0Ω, A_V = 1, R_L = 10Ω
CMRR	Common Mode Rejection Ratio	85		dB	V_{IN} = ±10V
PSRR	Power Supply Rejection Ratio	85 80 80		dB	±5V ≤ V_S ≤ ±15V +5V ≤ V_S(+) ≤ +15V, V_S(-) = -15V -5V ≥ V_S(-) ≥ -15V, V_S(+) = +15V
I_S	Supply Current	-	35	mA	
SR	Slew Rate **(Device type FLH0101A)**	7.5		V/µS	R_L = 10Ω, A_V = 1
GBW	Gain-Product Bandwidth **(Device type FLH0101A)**	4		MHz	R_L = ∞, A_V = 1

RECOMMENDED OPERATING CONDITIONS

Parameter		Range	Units
T_A	Ambient Operating Temperature Range	-55 to +125	°C