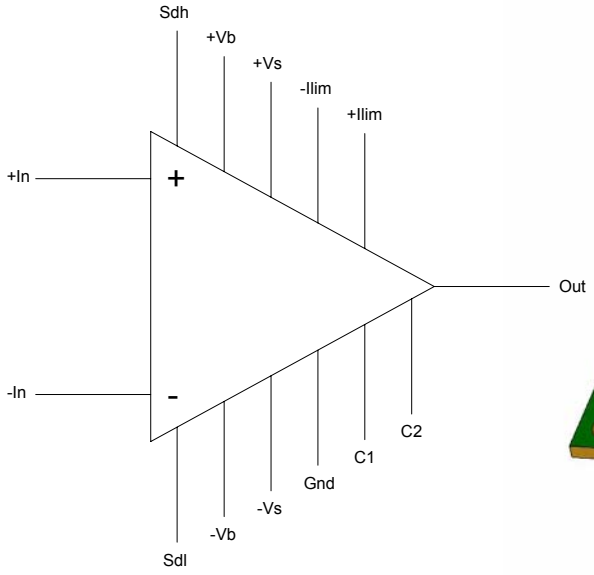
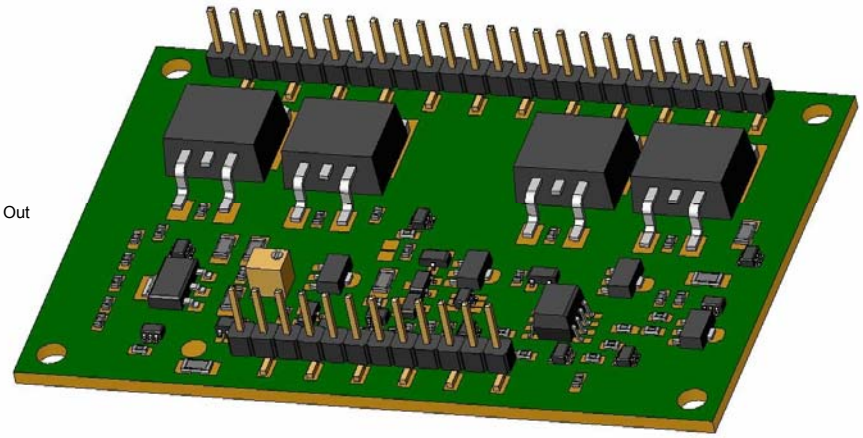
TECHNICAL DATA
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POWER OPERATIONAL AMPLIFIER





FEATURES:

- 100V OPERATION
- 30A CONTINUOUS CURRENT
- 150V/µs SLEW RATE
- JFET INPUTS
- EXTERNAL SHUTDOWN WITH LOGIC LOW OR LOGIC HIGH OPERATION
- BOOST INPUTS FOR MORE EFFICIENT POWER USAGE
- ADJUSTABLE CURRENT LIMIT
- COPPER-BASE INSULATED METAL SUBSTRATE FOR HIGH THERMAL TRANSFER
- FLEXIBLE HEATSINK CONFIGURATIONS
- LOW QUIESCENT CURRENT

APPLICATIONS:

- LINEAR MOTOR OPERATION
- PIEZO/ULTRASOUND TRANSDUCER DRIVING
- AUDIO
- MAGNETIC FIELD EXCITATION

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ABSOLUTE MAXIMUM RATINGS

T_C=25 °C UNLESS OTHERWISE NOTED

RATING	MAXIMUM
SUPPLY VOLTAGE, +Vs TO –Vs	100V
BOOST VOLTAGE	Vs ± 17V
CONTINUOUS OUTPUT CURRENT	30A (SEE SOA CURVE)
INTERNAL POWER DISSIPATION	200W
COMMON MODE INPUT VOLTAGE	+Vb TO –Vb
DIFFERENTIAL MODE INPUT VOLTAGE	±25V
JUNCTION TEMPERATURE	175°C
STORAGE TEMPERATURE	-40°C TO 125°C
OPERATING CASE TEMPERATURE	-40°C TO 100°C

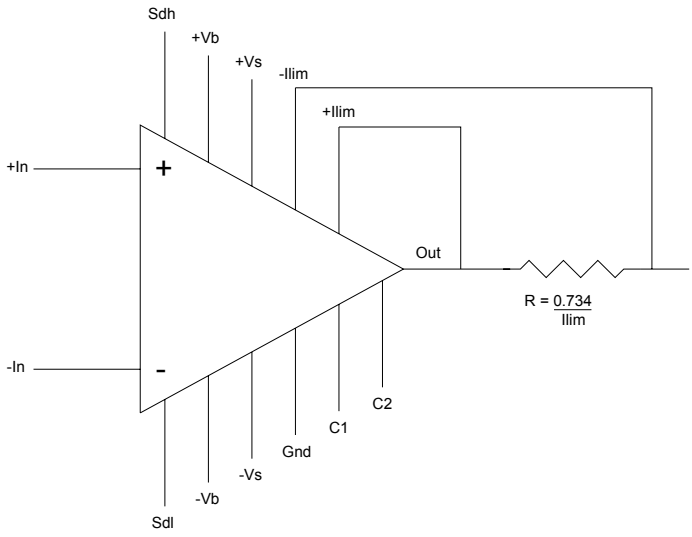
ELECTRICAL CHARACTERISTICS

T_C=25 °C UNLESS OTHERWISE NOTED
C = 100pF UNLESS OTHERWISE NOTED
RAILS ARE ± 45V UNLESS OTHERWISE NOTED

CHARACTERISTIC	SYM	CONDITIONS	MIN	TYP	MAX	UNITS
INPUT OFFSET VOLTAGE	Vio			0.5		mV
INPUT OFFSET CURRENT	Iio			2		pA
INPUT BIAS CURRENT	Iib			10		pA
COMMON MODE REJECTION RATIO	CMRR		102			dB
GAIN BANDWIDTH PRODUCT	GBW	C = 33pF		11.5		MHz
PHASE MARGIN	φm		45			DEG
VOLTAGE SWING, NOT BOOSTED	Vom		|Vs|-8.5V			
VOLTAGE SWING, BOOSTED	Vomb		|Vs|-1.7V			
SLEW RATE	SR	C = 33pF	120	150		V/µs
POWER BANDWIDTH	PBW			600		kHz
QUIESCENT CURRENT	Icc			45		mA
QUIESCENT CURRENT, BOOST PINS	Iccb			40		mA

CURRENT LIMITING

If curent limiting is not used, both current limit pins, +Ilim and –Ilim, must be connected to the output. To limit current, place a resistor of the value 0.734/Ilim in series with the output as shown below.



COMPENSATION

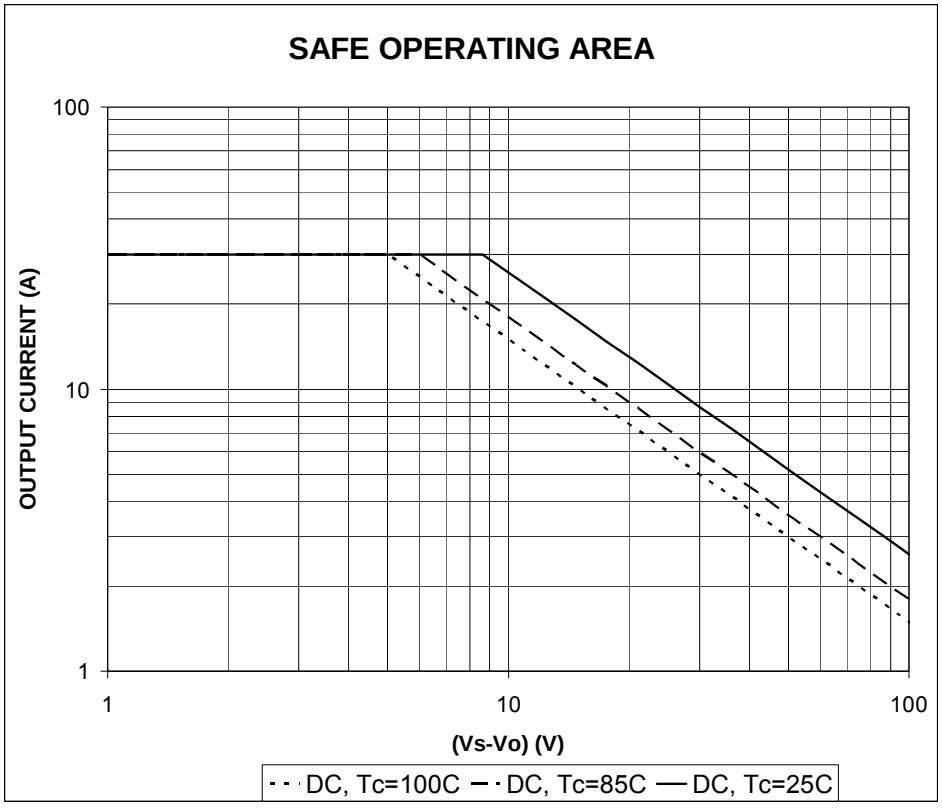
Connect a 100V, NPO capacitor between C1 and C2. For stability, the minimum capacitor value is generally 33pF.

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PINOUT

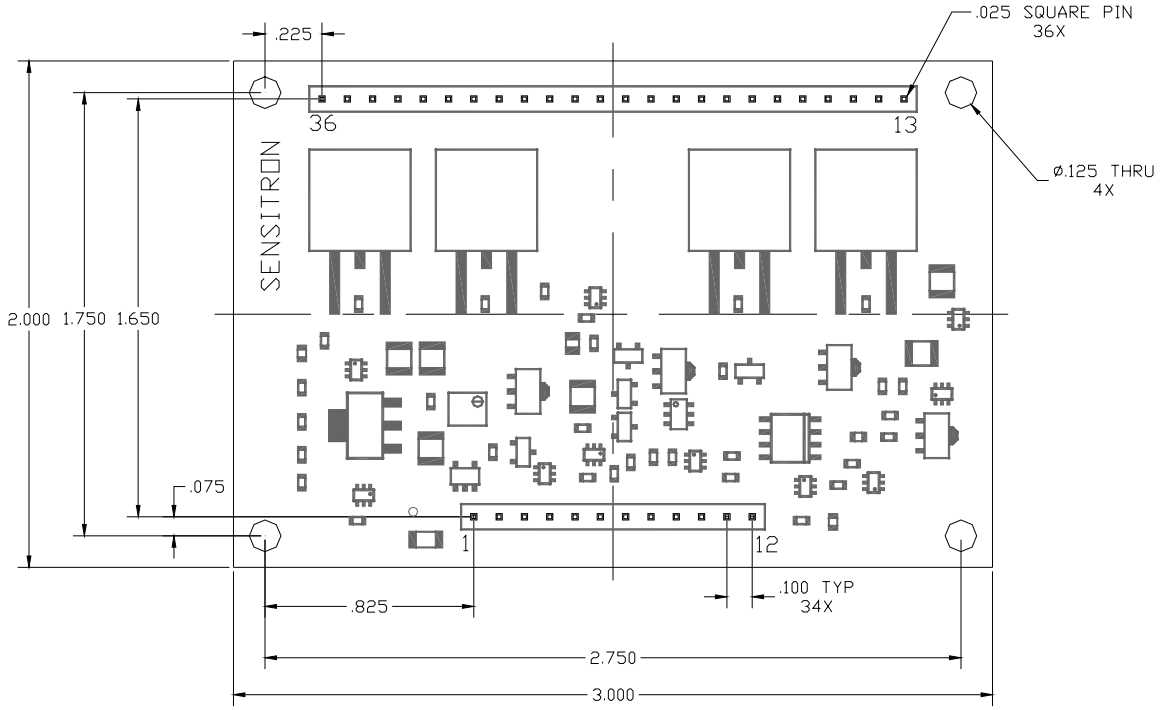
PIN	FUNCTION
1	BASE
2	CC2
3	CC1
4	-ILM
5	+ILM
6	-IN
7	+IN
8	-VB
9	+VB
10	GND
11	SD HIGH
12	SD LOW
13-18	-VS
19-30	OUT
31-36	+VS

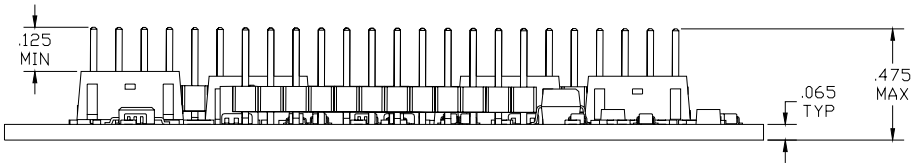
SAFE OPERATING AREA



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DIMENSIONS





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