

**Features**

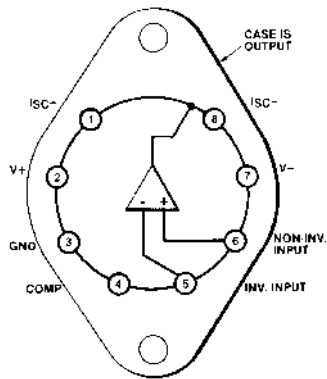
- High output current—1.2A
- Large output voltage swing— $\pm 12V$
- Low standby power—100 mW
- Wide full power bandwidth—20 kHz
- Low input bias current
- Low input offset voltage
- High open-loop gain  $> 100$  dB
- MIL-STD-883 devices 100% manufactured in U.S.A.

**Ordering Information**

Part No.	Temp. Range	Pkg.	Outline #
ELH0021K/883B	-55°C to +125°C	TO-3	MDP0003

8508801YX is the SMD version of this device.

**Connection Diagram**



Top View

0021-1

**General Description**

The ELH0021 is a general purpose operational amplifier capable of delivering large output currents not usually associated with conventional IC op amps; the ELH0021 will provide output currents in excess of 1A at voltage levels of  $\pm 12V$ . In addition, both the inputs and outputs are protected against overload. The device is compensated with a single external capacitor and are free of any unusual oscillation or latch-up problems.

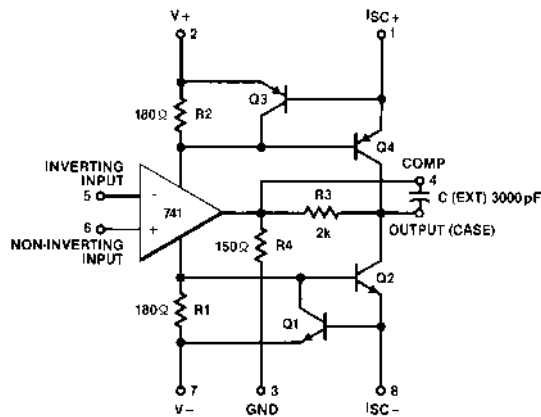
The excellent input characteristics and high output capability of the ELH0021 make it an ideal choice for power applications such as DC servos, capstan drivers, deflection yoke drivers, and programmable power supplies.

Other applications include torque drivers for inertial guidance systems, diddle yoke drivers for alphanumeric CRT displays, cable drivers, and programmable power supplies for automatic test equipment.

The ELH0021 is supplied in an 8-pin TO-3 package rated at 20W with suitable heatsink. The ELH0021 is guaranteed over the temperature range of  $-55^{\circ}C$  to  $+125^{\circ}C$ .

Elantec facilities comply with MIL-I-45208A and other applicable quality specifications. Elantec's Military devices are 100% fabricated and assembled in our rigidly controlled, ultra-clean facilities in Milpitas, California. For additional information on Elantec's Quality and Reliability Assurance policy and procedures request brochure QRA-1.

**Equivalent Schematic**



0021-2

Note: All information contained in this data sheet has been carefully checked and is believed to be accurate as of the date of publication; however, this data sheet cannot be a "controlled document". Current revisions, if any, to these specifications are maintained at the factory and are available upon your request. We recommend checking the revision level before finalization of your design documentation. Patent pending. CMS # 0021DS