

**Dual, 4.5MHz, BiMOS Operational Amplifier with MOSFET Input/Bipolar Output**

The CA3240A and CA3240 are dual versions of the popular CA3140 series integrated circuit operational amplifiers. They combine the advantages of MOS and bipolar transistors on the same monolithic chip. The gate-protected MOSFET (PMOS) input transistors provide high input impedance and a wide common-mode input voltage range (typically to 0.5V below the negative supply rail). The bipolar output transistors allow a wide output voltage swing and provide a high output current capability.

The CA3240A and CA3240 are compatible with the industry standard 1458 operational amplifiers in similar packages.

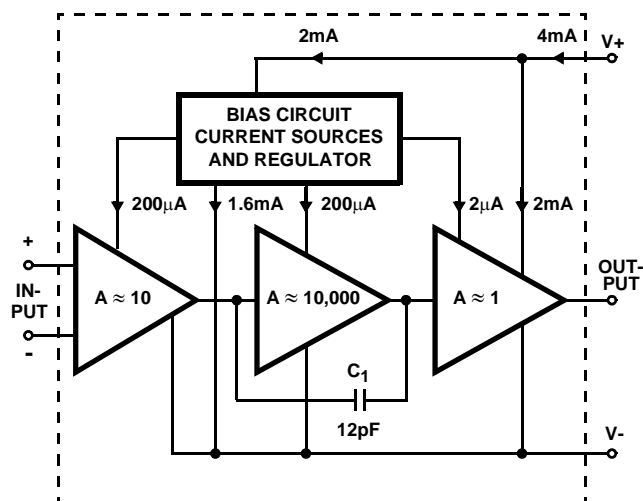
**Ordering Information**

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. DWG. #
CA3240AE	-40 to 85	8 Ld PDIP	E8.3
CA3240AEZ (See Note)	-40 to 85	8 Ld PDIP (Pb-free)	E8.3
CA3240E	-40 to 85	8 Ld PDIP	E8.3
CA3240EZ (See Note)	-40 to 85	8 Ld PDIP (Pb-free)	E8.3

Pb-free PDIPs can be used for through hole wave solder processing only. They are not intended for use in Reflow solder processing applications.

NOTE: Intersil Pb-free products employ special Pb-free material sets; molding compounds/die attach materials and 100% matte tin plate termination finish, which are RoHS compliant and compatible with both SnPb and Pb-free soldering operations. Intersil Pb-free products are MSL classified at Pb-free peak reflow temperatures that meet or exceed the Pb-free requirements of IPC/JEDEC J STD-020.

**Functional Diagram**



**Features**

- Dual Version of CA3140
- Internally Compensated
- MOSFET Input Stage
  - Very High Input Impedance ( $Z_{IN}$ ) 1.5TΩ (Typ)
  - Very Low Input Current ( $I_I$ ) 10pA (Typ) at ±15V
  - Wide Common-Mode Input Voltage Range ( $V_{ICR}$ ): Can Be Swung 0.5V Below Negative Supply Voltage Rail
- Directly Replaces Industry Type 741 in Most Applications
- Pb-Free Available (RoHS Compliant)

**Applications**

- Ground Referenced Single Amplifiers in Automobile and Portable Instrumentation
- Sample and Hold Amplifiers
- Long Duration Timers/Multivibrators (Microseconds-Minutes-Hours)
- Photocurrent Instrumentation
- Intrusion Alarm System
- Comparators
- Instrumentation Amplifiers
- Active Filters
- Function Generators
- Power Supplies

**Pinout**

**CA3240, CA3240A (PDIP)**  
TOP VIEW

