## GENERAL DESCRIPTION

The AD246 is a compact, inexpensive clock driver that can be used to obtain the required clock from a single 15 V supply. The circuit shown in Figure 1 (essentially an AD246) can operate at least 32 AD 204 s at the rated minimum supply voltage of 14.25 V and one additional isolator can be operated for each 40 mV increase in supply voltage up to 15 V .

A supply bypass capacitor is included in the AD246, but if many AD204s are operated from a single AD246, an external bypass connector should be used with a value of at least $1 \mu \mathrm{~F}$ for every five isolators used. Place the capacitor as close as possible to the clock driver.


Figure 1. Clock Driver

## AD246 SPECIFICATIONS

(Typical@ $25^{\circ} \mathrm{C}$ and $\mathrm{V}_{\mathrm{S}}=15 \mathrm{~V}$, unless otherwise noted.)

| Model | AD246JY | AD246JN |
| :---: | :---: | :---: |
| OUTPUT* |  |  |
| Frequency | 25 kHz Nominal | 25 kHz Nominal |
| Voltage | 15 V p-p Nominal | 15 V p-p Nominal |
| Fan Out | 32 max | 32 max |
| POWER SUPPLY REQUIREMENTS |  |  |
|  |  |  |
| Input Voltage | $15 \mathrm{~V} \pm 5 \%$ | $15 \mathrm{~V} \pm 5 \%$ |
| Supply Current |  |  |
| Unloaded | 35 mA | 35 mA |
| Each AD204 | 2.2 mA | 2.2 mA |
| Adds 1 mA |  |  |
| Load on AD204 |  |  |
| $+\mathrm{V}_{\text {ISO }}$ or |  |  |
| - $\mathrm{V}_{\text {ISO }}$ Adds | 0.7 mA | 0.7 mA |

*The high current drive will not support a short to ground. Specifications are subject to change without notice.

## AD246 Pin Designations

| Pin (Y) | Pin (N) | Function |
| :--- | :--- | :--- |
| 1 | 12 | 15 V Power In |
| 2 | 1 | Clock Output |
| 12 | 14 | Common |
| 13 | 24 | Common |

## OUTLINE DIMENSIONS



CONTROLLING DIMENSIONS ARE IN MILLIMETERS; INCH DIMENSIONS (IN PARENTHESES) ARE ROUNDED-OFF MILLIMETER EQUIVALENTS FOR REFERENCE ONLY AND ARE NOT APPROPRIATE FOR USE IN DESIGN

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