

### ADVANCED PRODUCT DATA

#### FEATURES

- 4 Simultaneous sample holds
- Internal 4-channel multiplexer
- 750 nSec. Acquisition time, 10V step to 0.01%
- 2 Channels with optional X10 gain
- Control logic for interfacing to A/D's
- Low power - 1.5 Watts
- Small 32-pin TDIP
- -55 °C to +125 °C Versions

#### GENERAL DESCRIPTION

The MSH-840 is a quad simultaneous sample-hold featuring an acquisition time of 750 nSec. Control logic is provided for strobing the channels simultaneously and for interfacing to A/D's. A 4-channel multiplexer allows individual S/H outputs to be digitized.

The MSH-840 requires +/-15V and +5V power supplies and dissipates just 1.5 Watts. Packaged in a small 32-pin TDIP, both commercial 0 to +70 °C and military -55 to +125 °C operating temperature range models are offered.

| PIN | FUNCTION | PIN | FUNCTION      |
|-----|----------|-----|---------------|
| 1   | DIGCOM   | 17  | +15V          |
| 2   | +5V      | 18  | PWRCOM        |
| 3   | SSH1 IN  | 19  | -15V          |
| 4   | OFSADJ1  | 20  | MUX OUT       |
| 5   | SSH1 OUT | 21  | MUX IN4       |
| 6   | SSH2 IN  | 22  | MUX IN3       |
| 7   | OFSADJ2  | 23  | MUX IN2       |
| 8   | SSH2 OUT | 24  | MUX IN1       |
| 9   | SSH3 IN  | 25  | ANACOM        |
| 10  | OFSADJ3  | 26  | CA1           |
| 11  | G X10 3  | 27  | CA0           |
| 12  | SSH3 OUT | 28  | START CONVERT |
| 13  | SSH4 IN  | 29  | CONV IN       |
| 14  | OFSADJ4  | 30  | S/H IN        |
| 15  | G X10 4  | 31  | EOC           |
| 16  | SSH4 OUT | 32  | RST           |

