

DALLAS

SEMICONDUCTOR

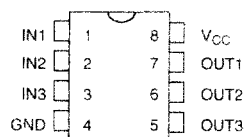
DS1035

3-in-1 High-Speed Silicon Delay Line

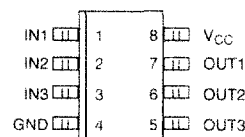
FEATURES

- All-silicon timing circuit
- Three independent buffered delays
- Stable and precise over temperature and voltage
- Leading and trailing edge precision preserves the input symmetry
- Standard 8-pin DIP and 8-pin SOIC (150 mil)
- Vapor phasing, IR and wave solderable
- Available in tape and reel

PIN ASSIGNMENT



DS1035M 8-PIN DIP
See Mech. Drawings
Section



DS1035Z 8-PIN SOIC (150 MIL)
See Mech. Drawings
Section

PIN DESCRIPTION

IN1-IN3	- Input Signals
OUT1-OUT3	- Output Signals
NC	- No Connection
V _{CC}	- +5-Volt Supply
GND	- Ground
(Sub)	- Internal substrate connection; do not make any external connections to these pins

DESCRIPTION

The DS1035 series is a low-power +5-Volt high speed version of the popular DS1013 and complements the DS1033 +3.3-Volt version.

The DS1035 series of delay lines have three independent logic buffered delays in a single package. The device is Dallas Semiconductor's fastest 3-in-1 delay line. It is available in a standard 8-pin DIP and 150-mil, 8-pin mini-SOIC.

The device features precise leading and trailing edge accuracies. It has the inherent reliability of an all-silicon delay line solution. The DS1035's initial tolerance is ± 1.5 or ± 2.0 ns with an additional tolerance over temperature and voltage of ± 1.0 ns or ± 1.5 ns, depending on the delay value. Each output is capable of driving up to 10 LS loads.

Standard delay values are indicated in Table 1. Customers may contact Dallas Semiconductor at (972) 371-4348 for further information.