138A



## 54FCT/74FCT138A 1-of-8 Decoder/Demultiplexer

## **General Description**

Logic Symbol

The 'FCT138A is a high-speed 1-of-8 decoder/demultiplexer. This device is ideally suited for high-speed bipolar memory chip select address decoding. The multiple input enables allow parallel expansion to a 1-of-24 decoder using just three 'FCT138A devices or a 1-of-32 decoder using four 'FCT138A devices and one inverter.

FACTTM FCTA utilizes NSC quiet series technology to provide improved quiet output switching and dynamic threshold performance.

FACT FCTA features undershoot correction and split ground bus for superior performance.

## **Features**

- NSC 54FCT/74FCT138A is pin and functionally equivalent to IDT 54FCT/74FCT138A
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- I<sub>OL</sub> = 48 mA (Com), 32 mA (Mil)
- CMOS power levels
- 4 kV minimum ESD immunity
- Military Product compliant to MIL-STD 883



**Pin Assignment** for DIP. Flatpak and SOIC 16 Vcc - ō<sub>o</sub> A1 15 14 - ō, A, - ō2 13 12 - Ō--ō4 E. 11 ō, - Ō5 10 GND 8 q õ TI /F/10658-2

