ADVANCE INFORMATION



54FCT/74FCT138 1-of-8 Decoder/Demultiplexer

General Description

The 'FCT138 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 'FCT138 devices or a 1-of-32 decoder using four 'FCT138 devices and one inverter.

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

FACT FCT features GTOTM output control and undershoot corrector in addition to a split ground bus for superior performance.

Features

- NSC 54FCT/74FCT138 is pin and functionally equivalent to IDT 54FCT/74FCT138
- Demultiplexing capability
- Multiple input enable for easy expansion
- Active LOW mutually exclusive outputs
- Input clamp diodes to limit bus reflections
- TTL/CMOS input and output level compatible
- \blacksquare I_{OL} = 48 mA (Com), 32 mA (Mil)
- CMOS power levels
- **ESD** immunity \geq 4 kV typ
- Military Product compliant to MIL-STD 883 and Standard Military Drawing #5962-87654

Logic Symbol







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