

33. Data Terminal Equipment (DTE) Power via Media Dependent Interface (MDI)

33.1 Overview

33.2 Power sourcing equipment

33.2.1 PSE location

33.2.2 Midspan PSE types

33.2.3 PI pin assignments

33.2.4 PSE state diagrams

33.2.4.1 Overview

33.2.4.2 Conventions

33.2.4.3 Constants

33.2.4.4 Variables

tovid_counter

A variable used as a counter to keep track of the cumulative time the current at the PI has exceeded ICUT.

tovid_window

A variable used as a counter for the purpose of calculating the IPort overload duty-cycle.

tovid_fault

A variable indicating an overload fault has occurred.

33.2.4.5 Timers

~~tovid_timer~~

~~A timer used to monitor the duration of an overcurrent condition, see T_{ovld} in Table 33-11.~~

33.2.4.6 Functions

do_measure_port_current

This function measures the current at the PI over a 1 ms period.

33.2.4.7 State diagrams

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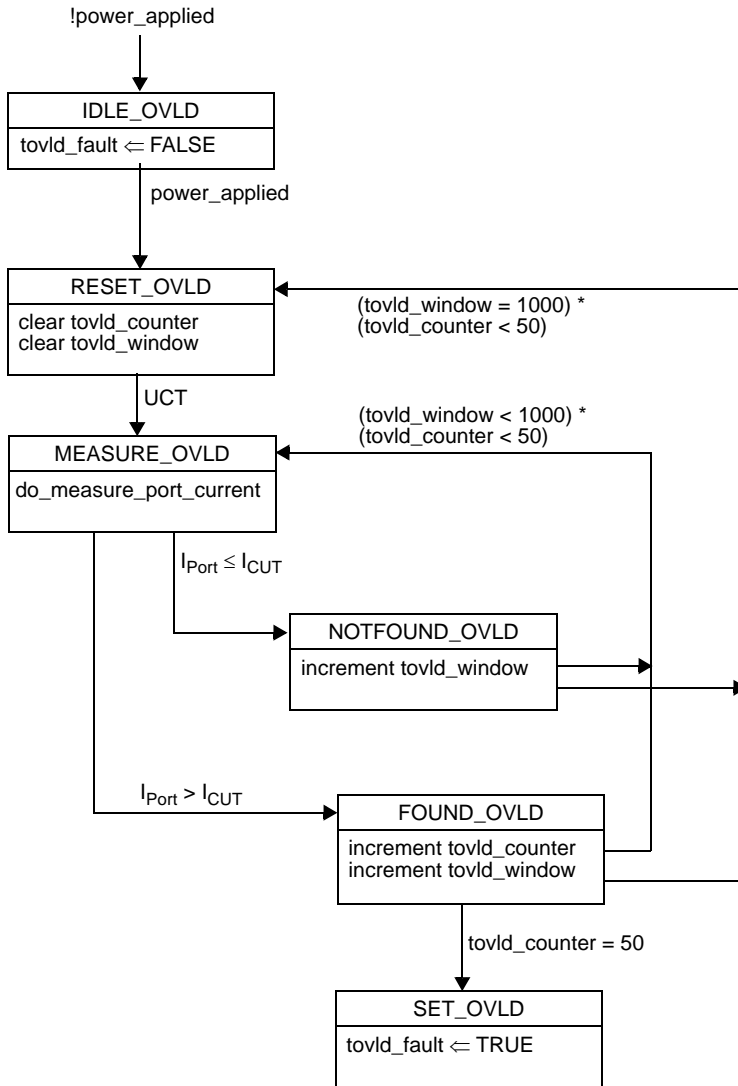


Figure 33–1—PSE monitor overload state diagram