

## Product Overview

### FAN6250: Secondary Side Synchronous Rectifier Controller for Flyback Converters Having Proprietary DRE Function While with FAN1080

For complete documentation, see the data sheet.

The FAN6250M6X is a secondary-side synchronous rectifier (SR) controller for an isolated flyback converter operating in Discontinuous Conduction Mode (DCM). The adaptive dead time control algorithm minimizes the body diode conduction of SR MOSFET while guaranteeing stable and robust SR operation against noise and disturbance caused by the circuit parasitic.

Programmable thermal Shut-Down (SD) function that informing primary side controller to shut-down the power system when pairing with PSR controller - FAN1080. The Dynamic Response Enhancement(DRE) function that minimize system response time when pairing with PSR controller - FAN1080.

#### Features

- Adaptive turn-off dead time tuning for general SR MOSFET application.
- Programmable Dynamic Response Enhancement (DRE) function to minimize system response time.

#### Benefits

- Stronger noise immunity and easier MOSFET compatibility
- Excellent Dynamic Response while with FAN1080

#### Applications

- Travel Adapter for Phone and Table
- IoT Power Applications
- DSC Adapter

#### End Products

- Travel Adapter

#### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V <sub>CC</sub> Max (V)	V <sub>ref</sub> Typ (V)	I <sub>CC</sub> Max (A)	T <sub>A</sub> Min (°C)	T <sub>A</sub> Max (°C)	Package Type
FAN6250M6X	0.3744	Pb-free Halide free	Active	5.5V		2.8mA			SOT-23-6

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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