

Features

- Optimized for COVEGA Optical Amplifiers or any other diode in a Butterfly package
- Drives arbitrary current waveforms, CW, pulsed, modulated or mixed
- Enhanced optical performance
- Short rise and fall time
- Frequency up to 25 MHz
- Two analog inputs
- Small dimensions



Specification

Diode current	0 ... 2.5 A
Diode voltage	0 ... 4.5 V
Output power	12 W max
Power dissipation	30 W max allowed
Supply voltage	3 V ... 6 V
Supply current	3 A max
Rise time	26 ns
Fall time	14 ns
Frequency	25 MHz max

Inputs

Diode current set point 1	0 ... 500 mV (50 Ohm input)
Diode current set point 2	0 ... 5 V (high impedance)
Enable	TTL
Reset	TTL

Outputs

Diode current monitor	0 ... 156 mV (into 50 Ohm)
Temperature	0 ... 4 V for 0 ... 80°C
Ready	TTL
Excess Temperature	TTL

General specifications

Ambient temperature	0 ... +45 °C
Cooling	Required
Dimensions	95 x 61 x 20 mm
Weight	250 g
Ordering Code	10100324

Description

The fast diode current modulator FM 2,5 (10100324) is a linear current modulator optimized for driving arbitrary current waveforms into COVEGA Optical Amplifiers or any other diode in a Butterfly package. Current waveforms can be CW, pulsed, modulated or mixed with frequencies up to 25 MHz and currents up to 2.5 A.

The FM 2.5 is small and compact and it is designed for mounting it with low inductance directly at the Butterfly package.

The FM 2.5 has two analogue inputs for the current setpoint, a high frequency input (50 Ohm input impedance) with a bandwidth of 25 MHz and a low frequency input with a bandwidth of 100 KHz. Both inputs cover the full current range.

Additionally there is a 10 turns potentiometer for generating a CW-current (bias current).

All set points are added and build the effective current set point.

For detailed information see operating manual or visit our website.

