

Features

Drives arbitrary current waveforms into high voltage, high power laser diodes
 CW, pulsed, modulated or mixed
 Optimized for diodes in TO56 package, especially for OSRAM's TB450 diode
 Short rise and fall time
 Bandwidth up to 27 MHz
 Enhanced performance
 Two analog inputs
 Trigger input


Specification

Diode current	0 ... 1,5 A
Diode voltage	0 ... 24 V
Power dissipation	30 W max allowed
Supply voltage	1 V ... 25 V
Supply current	1.5 A max
Supply voltage*	3 V ... 6 V
Rise time	14 ns
Fall time	23 ns
Bandwidth	27 MHz

Inputs

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

Outputs

Diode current monitor	0 ... 82.5 mV (into 50 Ohm)
Temperature	0 ... 4 V for 0 ... 80°C
Ready	TTL

General specifications

Ambient temperature	0 ... +45 °C
Cooling	Required
Dimensions	95 x 61 x 20 mm
Weight	250 g
Ordering Code	10100368

* for internal electronics

Description

The fast diode current modulator VFM 1,5-25 is a linear modulator with improved properties for driving arbitrary current waveforms or fast pulses into laser diodes in TO56 package, especially into OSRAM's blue TB450 diode.
 Current waveforms can be CW, pulsed, modulated or mixed with frequencies up to 27 MHz and currents up to 1.5 A.
 The VFM 1,5-25 is small and compact and it is designed for mounting it with low inductance directly at laser diodes.
 The VFM 1,5-25 has two analogue inputs for the current setpoint, a high frequency input (50 Ohm input impedance) with a bandwidth of 27 MHz and a low frequency input with a bandwidth of 100 KHz. Both inputs cover the full current range.
 Additionally there is a TTL-Trigger input which acts at the high frequency input for generating fast and clean pulses.

For detailed information see operating manual or visit our website.

