

Features

- Drives 240 A / 2500 W pulses into CBT-120 LEDs or into VCSELs
- Short rise and fall time
- Excellent dynamic performance
- Two analog inputs
- Small dimensions

Specification

Diode current	0 ... 100 A
Diode current pulsed	0 ... 240 A (1 μ s pulses)
Diode voltage	0 ... 24 V
Output power	5000 W max (1 μ s pulses)
Repetition Rate max	100 KHz (100 A / 1 μ s) 37 KHz (200 A / 1 μ s) 30 KHz (240 A / 1 μ s)
Rise time	300 ns
Fall time	300 ns
Power dissipation	150 W max allowed
Supply voltage	1 V ... 25 V
Supply current	100 A max
Supply voltage*	3 V ... 6 V

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 ... 50 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	275 g
Ordering Code	10100345

* for internal electronics

Description

The fast diode current modulator FM 100-25 (10100345) is a linear modulator optimized for driving high current, high voltage pulses of up to 2500 W into Phlatlight© CBT-120 LEDs, into similar LEDs or into VCSELs.

The FM 100-25 is small and compact and it is designed for mounting it with low inductance directly at the diodes.

The FM 100-25 has two analogue inputs for the current setpoint, a high frequency input (50 Ohm input impedance) and a low frequency input. 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.

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