

10100345

High Voltage Fast Diode Current Modulator FM 100-25 Optimized for Phlatlight© CBT-120 LEDs

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 µs pulses)

Diode voltage 0 ... 24 V

Output power 5000 W max (1 µs pulses) Repetition Rate max 100 KHz (100 A / 1 µs)

37 KHz (200 A / 1 μs) 30 KHz (240 A / 1 μs)

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

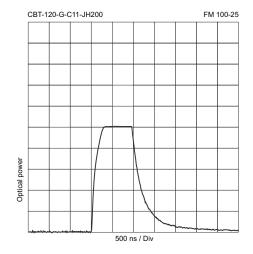
Ready TTL Excess Temperature TTL

General specifications

Ambient temperature 0 ... +45 °C
Cooling Required
Dimensions 95 x 61 x 20 mm

Weight 275 g Ordering Code 10100345

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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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^{*} for internal electronics