## **MESSTEC** Power Converter GmbH

# Data Sheet Low Power Driver LPD 2-25

0 mA ... 2000 mA

diode voltage + 1 V

3.8 W max (no heatsink)

6.0 V ... 24.0 V, max. 26 V

50 kHz max (square wave)

165 kHz max (sine wave, -3dB)

 $0 V \dots 10 V$  (impedance:  $2 k\Omega$ )

TTL - low active (impedance:  $1 \text{ k}\Omega$ )

15.6 W max (heatsink required)

max 23 V

2.05 A max

±150ppm / °C

< 3.5 µs

< 3.5 µs

±1% ±1%

no ripple



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### Features

Drives arbitrary current waveforms into laser diodes CW, pulsed, modulated or mixed curves Short rise and fall time, no overshot, no ripple Set-point adjustment: analog input and potentiometer Digital enable / trigger input

## Specification

Diode current Diode voltage Power dissipation Power dissipation Supply voltage Supply voltage min Supply current Rise time Fall time Frequency Frequency Frequency Accuracy Linearity Temperature stability Ripple

### Inputs

Diode current set point Enable

Output

Diode current

Terminal

## **General specifications**

Ambient temperature Dimensions Weight 0 ... +45 °C 52 x 37 x 11 mm, with heat sink 105 x 50 x 39 mm 12 g, with heat sink 162 g

### Description

Low power driver LPD 2-25 is a linear current source with excellent properties for driving low power laser diodes. Current waveforms can be CW, pulsed, modulated or a combination with frequencies up to 50 kHz (square wave) and currents up to 2 A. An analog modulation input and a digital enable / trigger input can generate fast and clean pulses. An analog input and a potentiometer control the current set point. Both values are added and build the effective current set point. LPD 2-25 is small and compact and can be operated without heatsink ( $P_{DISS} < 3.8W$ ). A heatsink is required for  $P_{DISS} > 3.8W$ .

Technical subjects to change without notice.

Туре	Description	Ordering code
LPD 2-25	Current Source	10100920
LPD 2 HSK	Heatsink Kit	10100921



Warning! Risk of exposure of hazardous laser radiation in combination with laser light emitting devices!

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