

August 1997

DESCRIPTION

The SSI 33R3753 is a high performance BiCMOS single chip laser driver for high-speed data reading and recording on an optical disk. The part delivers a wide range of stable current for reading and a wide range of variable precision pulses for recording into a laser diode such as the TOLD9151MB.

The SSI 33R3753 offers several safety features that prevent damaging overpower conditions during both power-up and normal operations, as well as accidental elevated power during read operations.

Calibrations of read power and write power are supported.

The SSI 33R3753 requires +5 V and +12 V supplies, and is available in 32-Lead TQFP package.

FEATURES

- **Short precision write one-shot pulse**
- **One-shot override mode**
- **Variable write pulsewidth from 3 ns to 18 ns**
- **Adjustable closed-loop servo of read current**
- **Wide range of current output; read current up to 70 mA, write current up to 70 mA**
- **Precision calibration of read and write laser power**
- **High power and high current detection circuitry**
- **Output current safety shutdown**
- **Standby mode**

SSI 33R3753

Laser Driver IC

with Read Servo Loop

BLOCK DIAGRAM

