



Low Side Driver LSD-BOT

Description

Southwest Research Institute's® (SwRI®) low side driver BOT™ (LSD-BOT) is an advanced driver capable of driving eight loads through low side switching. The LSD-BOT can be configured for solenoids, injectors, and ignition coils. Logic level inputs with protection allow any controller to drive high current low devices.

The LSD-BOT can drive high impedance injectors, ignition coils or solenoids from a controller's logic level outputs regardless of whether the controller has high current low side drivers to actuate injectors, ignition coils, or solenoids.



Features

Always environmentally protected

Eight channels

Sealed Deutsch 24-pin connector

Test cell and vehicle mountable

Outputs

- 7A continuous
- Ignition coil
- Solenoid
- Injector

Inputs

- Logic level input
- Input protected to 16V

Configurations

Solenoid/injector configuration

- 7A continuous
- 30A peak
- Linear current limitation
- Thermal shutdown protection
- Integrated overvoltage clamp

Ignition configuration

- 500mJ self-clamped inductive switching capability
- 450V overvoltage clamp
- High I/O count
- Test cell and vehicle mountable

Custom configuration

- Mixed outputs
- Low side drive input
- Push-pull input

Each SwRI BOT™ system is highly customizable to meet unique customer needs. The standard configuration in this data sheet is the expandable foundation for your prototyping solution.