

### L99VR01S & L99VR01J

# Automotive linear voltage regulators with configurable output voltages



## With 8 fixed configurable output voltages from 0.8 to 5V, L99VR01x devices offer a rich set of features to help meet functional safety requirements

Fully compliant with automotive requirements, L99VR01x devices can be used for several electronic applications, simplifying the design through its 8 selectable fixed output voltages from 0.8 to 5.0 V and up to 200 mA load-current capability.

Able to operate both in post regulation, attached to a pre-regulated voltage, or directly connected to battery, certain devices in this series feature enable, reset, autonomous watchdog, advanced thermal warning, fast output discharge and IShort control functions.

Their excellent thermal performance ensures a good fit with electronic applications in hightemperature environments.

Relevant safety documentation is available upon request to fulfill functional safety requirements.

#### **KEY FEATURES & BENEFITS**

- Selectable fixed output voltage (0.8; 1.2; 1.5; 1.8; 2.5; 2.8; 3.3 or 5 V)
- Output over voltage detection
- High junction temperature
- Lower quiescent current in standby mode
- Thermal warning
- IShort control
- Watchdog
- Fast output discharge
- Enable and Reset

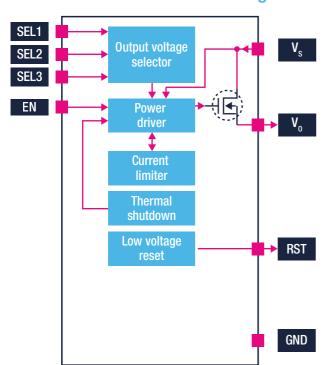
#### **KEY APPLICATIONS**

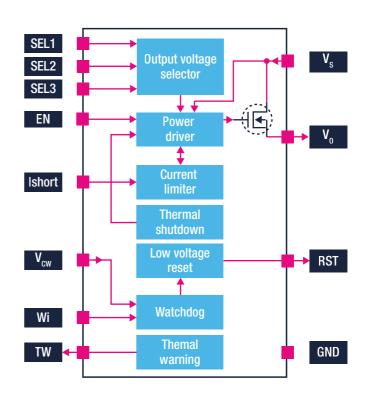
- Automotive display drivers
- MCU supplies
- Sensors
- Portable electronic applications
- Battery-powered instruments

Thanks to its 8 selectable fixed output voltages from 0.8 to 5.0 V, our L99VR01x automotive low dropout linear voltage regulators can be used for several electronic applications such as navigation systems, MCU supplies, audio systems, powertrain systems, automotive display drivers, sensors (e.g. camera sensor), portable electronic applications, battery-powered instruments, medical & healthcare.

Due to its increased thermal performance up to 175 °C, L99VR01x devices are ideal for electronic applications with high-temperature environments. Moreover, L99VR01x devices are designed to support electronic platforms which need functional safety requirements, even if the device cannot be considered fully ASIL compliant according ISO 26262. Our L99VR01x LDOs also guarantee additional benefits including improved qualification times and delivery support.

#### L99VR01S & L99VR01J block diagrams





#### **Devices Summary**

Part number	Package	Extended operative input voltage (V)	Regulated Output Voltage (V)	Output Current (mA)	Max Dropout voltage (mV)	Max. Quiescent current (uA)	Features
L99VR01S	SO-8	2.15 to 28	0.8 to 5	200	500 <sup>(1)</sup>	1 (2)	Enable, Reset
L99VR01J	PowerSS0-12	2.15 to 28	0.8 to 5	200	500 <sup>(1)</sup>	1 <sup>(2)</sup>	Enable, Reset, Watchdog, Thermal Warning, Ishort control, Fast Output discharge

Note:

With lo=150 mA
With regulator disabled





