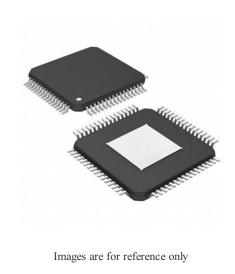


## Universal Door Lock IC Automotive 64-Pin TQFP Tray

Manufacturer:	STMicroelectronics, Inc.
Package/Case:	TQFP-64(10x10)
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free Works
Lifecycle:	Active



## **General Description**

The L99UDL01 is a multiple half-bridge IC with 6 integrated outputs that are PWM configurable and current regulated and up to two externally configured half bridges for higher current nodes. The level of diagnostics includes open load, short to battery, short to ground, and load integrity via 10 bit current feedback. The L99UDL01 is commanded entirely by SPI using duration and current level commands.

## **Key Features**

AEC-Q100 qualified

Six integrated fully protected 0.09 W half bridges

Integrated half bridges can be fully independent or paralleled up to three in parallel

Two levels of standby

Standby (SPI initiated)

Sleep (VDD=0 V)

Standby (SPI initiated)

Sleep (VDD=0 V)

Very low current consumption in standby

Only wake-up circuit active

Only wake-up circuit active

High level of programmability

On-time duration

Direction

Current level

Off-state fault detection

On-time duration

Direction

Current level

Off-state fault detection

2 external half bridge controllers (using external N-channel MOSFETs or Smart Power devices)

External half bridges protected by drain source monitoring and off-state fault detection

2 stage charge pump for low voltage operation

PWM current regulation up to 25 kHz

4 MHz 24 bit SPI interface for control and diagnostics

Output enable for high security

High level diagnostics

10 bit digital current feedback (via SPI) for load integrity check

Thermal warning and shutdown protection

Reverse battery protection using an external N-Ch MOSFET.

TQFP64L exposed pad package

## **Recommended For You**

L9651 STMicroelectronics, Inc HSOP20

L9822EPD STMicroelectronics, Inc HSOP20

L9949 STMicroelectronics, Inc HSOP20

L9950XP STMicroelectronics, Inc SSOP36

L9958SBTR STMicroelectronics, Inc SSOP16 L9678PTR STMicroelectronics, Inc LQFP-64

L9951 STMicroelectronics, Inc HSSOP36

L9950 STMicroelectronics, Inc HSSOP36

L9952GXP STMicroelectronics, Inc SSOP36

L9651-TR STMicroelectronics, Inc HSOP20 L9904

STMicroelectronics, Inc SOP20

L9680TR STMicroelectronics, Inc LQFP100

L9848 STMicroelectronics, Inc SOP28

L9733XP STMicroelectronics, Inc SSOP28

L9374TRLF

STMicroelectronics, Inc SSOP36