

# High efficiency 9...30V input Automotive Tail Light prototype with High Brightness LED's **AMTL-01**

- Product Description



## Description:

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Wide voltage range taillight from 9V to 30V. Ready evaluated prototype. Combines 3 functions: course (red), brake(red) and turn(yellow) signal in one unit. Each function works independently from the other input voltage. Using Solid state lighting (LED) improves response speed, power consumption, expected life-time and overall reliability compared to conventional bulbs. Driving circuit provides precision current pre-set to achieve the desired luminosity and ensures high efficiency over all input voltages. Connections are ready for direct bulb replacement.

## Characteristics:

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- Compatible with 12V and 24V automotive systems
- Autonomous functions allow for mixed supply Voltages
- High efficiency (>85%)
- Reliability (life time > 50000 operation Hours)
- Precision current pre-set LED driver
- Ready-to-plug connections for Bulb Replacement
- Able to redesigned in order to fit your exact demands

## Applications:

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- Automotive Taillight

## Ratings\*:

Description	Value	Unit
Minimum Continuous Supply Voltage	9	V
Maximum Continuous Supply Voltage	30	V
Ambient temperature range	-40 to +125	°C
Maximum Power @ 13,5V (led@50mA)(Course/Brake/Turn)	0,4 / 2,7 / 2,9	W
Maximum Power @ 24,5V (led@50mA)(Course/Brake/Turn)	0,7, / 3,1 / 3,1	W
Absolute Maximum Transient Voltage	40	V
Average Overall Efficiency @ 13,5V (not including LED efficiency)	89	%
Average Overall Efficiency @ 24,5V (not including LED efficiency)	85	%

## Connections\*:

Description	Terminal
Negative terminal (GND, Chasis)	A
Positive terminal course light (red light)	B
Positive terminal Brake light (red light)	C
Positive terminal Turn-signal light (yellow)	D

\* As this product is a prototype, specifications are not mandatory and can/may change in the final product