

## VERY LOW DROP 5V VOLTAGE REGULATOR

- PRECISE OUTPUT VOLTAGE ( $5V \pm 2.5\%$ )
- VERY LOW DROPOUT VOLTAGE
- OUTPUT CURRENT IN EXCESS OF 500 mA
- POWER-ON, POWER-OFF INFORMATION (RESET FUNCTION)
- +100/-100V LOAD DUMP PROTECTION
- OVERVOLTAGE AND REVERSE VOLTAGE PROTECTIONS
- SHORT CIRCUIT PROTECTION AND THERMAL SHUT-DOWN

The L487 is a monolithic integrated circuit in Pentawatt package specially designed to provide a stabilized supply voltage for automotive and industrial electronic systems. Thanks to its very low voltage drop, in automotive applications the L487 can work correctly even during the cranking phase, when the battery voltage could fall as low as 6V. Furthermore, it incorporates a complete range of protection circuits against the dangerous overvoltages always present on the battery rail of the car. The reset function makes the device particularly suited to supply microprocessor based systems: a pulse is available (after an externally programmable delay) to reset the microprocessor at power-on phase; at power-off, this pulse becomes low inhibiting the microprocessor.

## ABSOLUTE MAXIMUM RATINGS

$V_i$	Forward input voltage	30	V
$V_i$	Reverse input voltage	-18	V
	Positive transient peak voltage ( $t = 300$ ms)	100	V
	Negative transient peak voltage ( $t = 100$ ms)	-100	V
$T_{op}$	Operating junction temperature	-40 to 150	°C
$T_{stg}$	Storage temperature	-55 to 150	°C

ORDERING NUMBER: L487B

## MECHANICAL DATA

Dimensions in mm

