Min. attenuation: < 1V at 13.5V

The current regulator is protected against reverse polarity conditions.

"ALFA ROMEO CONTROL" CHECK CIRCUITS

The Alfa Romeo Control circuits are part of a physically built-in unit inside the instrument panel.
The Alfa Romeo Control allows different parameters related to vehicle and engine electric/electronic circuit operation to be controlled. It also checks the efficiency of some warning lights on the instrument panel, in order to control the correct visualization whenever a faulty condition arises.
With reference to the figure which illustrates the instrument panel, the circuits control and/or check the warning devices relevant to the following conditions:

- Doors open (**3**)
- Stop lights (**6**)
- Engine oil level (**7**)
- Windshield washer fluid level (**8**)
- Engine coolant level (**9**)
- Handbrake actuated (**10**)
- Front brake pad wear (**11**)
- Brake oil level (**12**)
- Fuel reserve (**14**)
- Engine coolant maximum temperature (**15**)
- Electronic Automatic Transmission functions (if installed) (**17**)
- Total/Trip odometer display (**18**)
- Engine oil low pressure (**20**)
- Safety belts (**23**)
- Controlled Damping Suspension SCS (**25**) (if installed)
- Electronic Automatic Transmission oil temperature (**26**) (if installed)

The operating modes and the intervention phylosophy of the Alfa Romeo Control are herewith described.

OPERATING PHASES

The Alfa Romeo Control operation can be subdivided into four main phases.

PHASE 1:
Engine switched off with key removed or inserted in the ignition switch (POS. 0).

PHASE 2:
Engine switched off with key inserted and rotated to POS. 1 (RUN) or engine switched off with key inserted and rotated to POS. 1 (RUN) and Test push-button pressed; the latter is defined as " test" condition.

PHASE 3: Engine running.

Note: Every data acquisition delay time is 1 sec. if not otherwise specified.

PHASE 1: engine switched off with key removed or inserted in POS. 0

In this phase the Alfa Romeo Control is in stand-by.
When a door is opened the Alfa Romeo Control starts operating to control, through a relay, the roof lamps with the timing indicated in the following table.

Door opening time	Roof lamps timing after closure
t ≤ 5.5 sec.	0 sec.
5.5 sec. <t< 2 min.	5.5 sec.

If the door is left constantly open, the Alfa Romeo Control switches off the roof lamps after approx. 2 minutes.
When the key is rotated from POS. 0 (OFF) to POS. 1 (RUN) a microswitch is closed, remaining in this status even if the key is reset to POS. 0 (OFF).
In this condition (key reset to POS. 0), openng the driver's side door activates an acoustic alarm. The acoustic warning circuit remains energized until the key is removed from the ignition switch.

PHASE 2: check with engine switched off, key inserted and rotated to POS. 1 (RUN) or engine switched off, key inserted and rotated to POS. 1 (RUN) and TEST push-button pressed.

In this phase the Alfa Romeo Control automatically checks the warning lamps and all snsors and electric