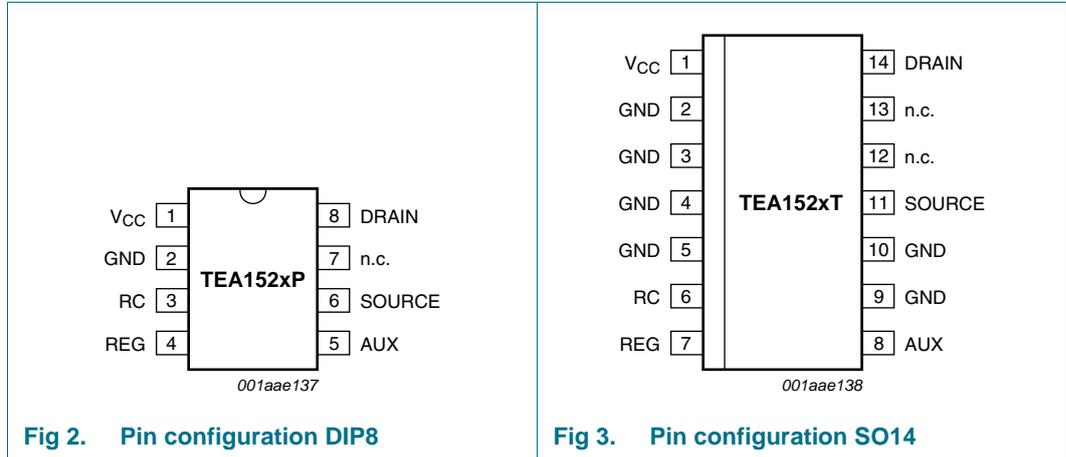


## 7. Pinning information

### 7.1 Pinning



### 7.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	DIP8	SO14	
V <sub>CC</sub>	1	1	supply voltage
GND	2	2, 3, 4, 5, 9, 10	ground
RC	3	6	frequency setting
REG	4	7	regulation input
AUX	5	8	input for voltage from the auxiliary winding for timing (demagnetization)
SOURCE	6	11	source of the internal MOS switch
n.c.	7	12, 13	not connected
DRAIN	8	14	drain of the internal MOS switch; input for the start-up current and valley sensing

## 8. Functional description

The TEA152x family is the heart of a compact flyback converter, with the IC placed at the primary side. The auxiliary winding of the transformer can be used for indirect feedback to control the isolated output. This additional winding also powers the IC. A more accurate control of the output voltage and/or current can be implemented with an additional secondary sensing circuit and optocoupler feedback.

The TEA152x family uses voltage mode control. The frequency is determined by the maximum transformer demagnetizing time and the time of the oscillator. In the first case, the converter operates in the Self-Oscillating Power Supply (SOPS) mode. In the latter case, it operates at a constant frequency, which can be adjusted with external