

Raddrizzatore ad una semionda

The image shows a Multisim simulation of a half-wave rectifier circuit. The circuit consists of an AC voltage source V1 (12 V, 50 Hz, 0 Deg) connected in series with a diode D1 (1N4007) and a load resistor R1 (1.0kΩ). The diode is oriented to allow current flow only during the positive half-cycles of the AC source. The output voltage is measured across the resistor R1. An oscilloscope window, titled "Oscilloscope-XSC2", displays the resulting waveform, which is a series of positive half-sine waves with zero voltage during the negative half-cycles. The oscilloscope settings are as follows:

Parameter	Value
Time	25.128 ms
Channel_A	18.957 V
Channel_B	18.277 V
Timebase Scale	10 ms/Div
Channel A Scale	10 V/Div
Channel B Scale	10 V/Div
X position	0
Y position	0
Y position	0
Y position	0
Trigger Edge	F
Level	0 V
Type	Sing Nor Auto None

The simulation is running on a Windows operating system, as indicated by the taskbar at the bottom. The taskbar shows the Start button, several application icons, and the system tray with the date and time (19.30).

Alimentatore ad una semionda

The image shows a Multisim simulation of a half-wave rectifier circuit. The circuit components are:

- V1: 12 V, 50 Hz, 0Deg AC voltage source
- D1: 1N4007 diode
- C2: 100uF capacitor
- R1: 1.0k resistor

The oscilloscope (XSC2) displays the output waveform across the resistor. The settings for the oscilloscope are:

Parameter	Channel A	Channel B
Time	0.000 s	0.000 V
Scale	10 ms/Div	10 V/Div
Y position	0	0
Trigger	Edge	Level 0 V

The status bar at the bottom indicates the simulation time: Tran: 0.092 s.

Alimentatore stabilizzato ad una semionda

The image shows a Multisim simulation of a half-wave rectifier circuit. The circuit components are:

- V1: 12 V, 50 Hz, 0Deg AC voltage source
- D1: 1N4007 diode
- R2: 100 Ω resistor
- C2: 100 μ F capacitor
- D2: BZV55-C9V1 Zener diode
- R1: 1.0k Ω resistor

The oscilloscope (XSC2) displays the output waveform, which is a half-wave rectified sine wave. The oscilloscope settings are:

- Time: 0.000 s
- Channel_A: 0.000 V
- Channel_B: -0.000 V
- Scale: 10 V/Div
- Scale: 10 V/Div
- Trigger: Edge, Level: 0 V

The status bar at the bottom indicates the simulation time: Tran: 0.095 s.