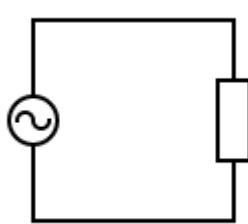
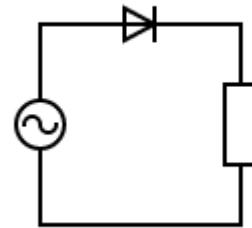


- 27** A circuit with a sinusoidal alternating power supply is rectified with a diode as shown.



before rectification



after rectification

The mean power of the circuit before rectification is P .

What is the peak and mean power of the circuit after rectification?

	peak power	mean power
A	$0.5P$	$0.5P$
B	P	$0.5P$
C	$2P$	$0.5P$
D	$2P$	P