



Solid State Electronics – Unit 6: DIAC

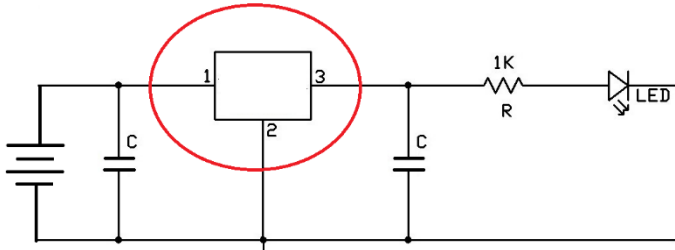
Regulating and Filtering Components Exercise – Answer Key

Match the following components with the job they perform. Fill in if the description or picture describes a filter component or regulator component.

Filter Capacitor Creates a pure DC voltage from a pulsating DC voltage.

Zener Diode A component that will conduct current in the reverse bias mode after the voltage across it has reached the rated voltage.

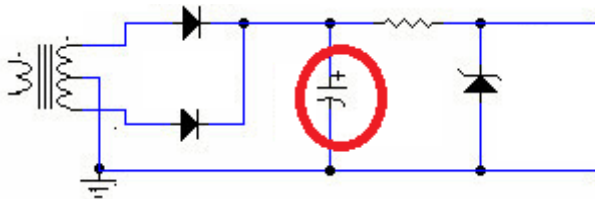
Voltage Regulator The component circled in red in the following circuit.



Zener Diode The component circled in red in the following circuit.



Filter Capacitor The component circled in red in the following circuit.





**Multi-State
Advanced Manufacturing
Consortium**

US DOL SPONSORED TAACCCT GRANT: TC23767
PRIMARY DEVELOPER: Jim Blair – Henry Ford College

RELEASE DATE 2/22/2016
VERSION v 001
PAGE 2 of 2

Solid State Electronics – Unit 6: DIAC

Regulating and Filtering Components Exercise – Answer Key

SAFETY DISCLAIMER:

M-SAMC educational resources are in no way meant to be a substitute for occupational safety and health standards. No guarantee is made to resource thoroughness, statutory or regulatory compliance, and related media may depict situations that are not in compliance with OSHA and other safety requirements. It is the responsibility of educators/employers and their students/employees, or anybody using our resources, to comply fully with all pertinent OSHA, and any other, rules and regulations in any jurisdiction in which they learn/work.

M-SAMC will not be liable for any damages or other claims and demands arising out of the use of these educational resources. By using these resources, the user releases the Multi-State Advanced Manufacturing Consortium and participating educational institutions and their respective Boards, individual trustees, employees, contractors, and sub-contractors from any liability for injuries resulting from the use of the educational resources.

DOL DISCLAIMER:

This product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

RELEVANCY REMINDER:

M-SAMC resources reflect a shared understanding of grant partners at the time of development. In keeping with our industry and college partner requirements, our products are continuously improved. Updated versions of our work can be found here: <http://www.msamc.org/resources.html>.

