



Consumer

APPLICATION BRIEF



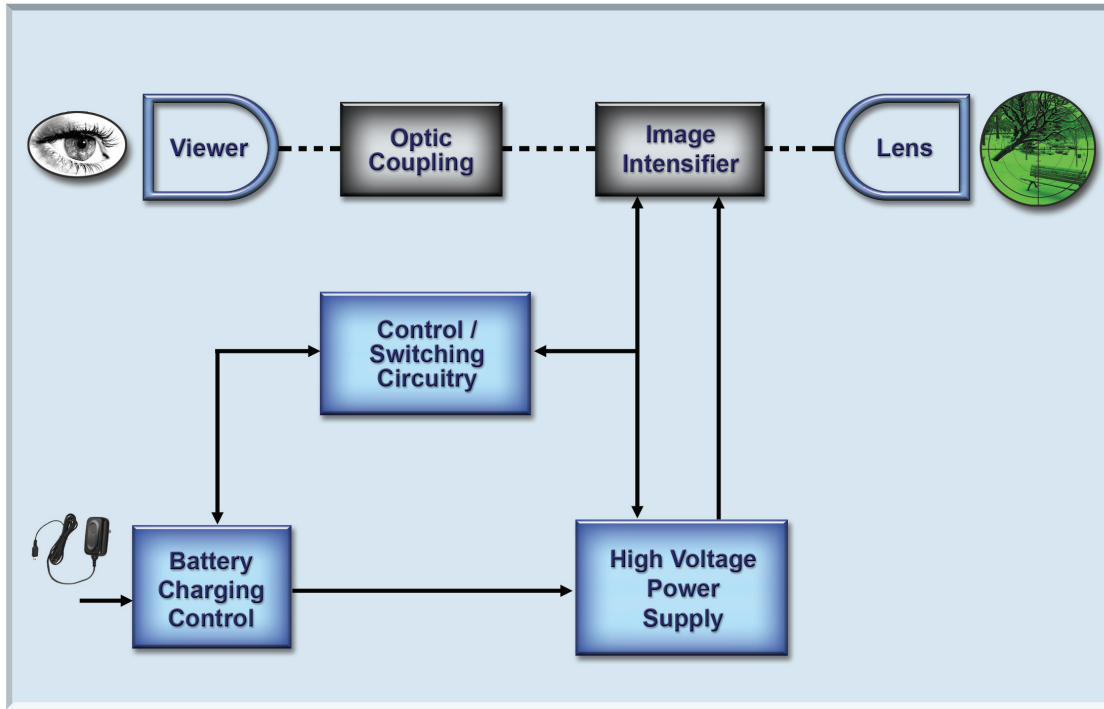
Night Vision Technology systems



The design of modern Night Vision Technology (NVT) systems requires semiconductors that combine small form factor, high power density and elevated levels of energy efficiency. Central Semiconductor understands these requirements and has a long history of supplying discrete semiconductors to the world's most demanding NVT designers and manufacturers.

For more information visit: www.centrasemi.com/nvt

Night Vision Technology systems Topology



Control/Switching Circuitry

• Small Signal Transistors

- CMLT491E: 1.0A, 60V NPN (SOT-563)
- CXT491E: 1.0A, 60V NPN (SOT-89)

• Rectifier

- CMMR1-10: 1A, 1000V (SOD-123F)

• Switching Diode

- CMOD4448: 250mA, 100V (SOD-523)

• Zener Diode

- CMOZ6L8: 6.8V, 250mW low idle current (SOD-523)

For more information visit: www.centrasemi.com/apps/csc18

High Voltage Power Supply

• Switching Diodes

- CMXD3004SR: 375V, 200mA, dual pair of in-series fast switching, opposing polarity diodes (SOT-26)
- CMXD2004S: 300V, 200mA, dual pair of in-series fast switching diodes (SOT-26)
- CMXD2004TO: 240V, 200mA, triple isolated, opposing polarity fast switching diodes (SOT-26)
- CMSD2005S: 350V, 225mA, pair of in-series fast switching diodes (SOT-323)
- CMPD2005S: 350V, 225mA, pair of in-series fast switching diodes (SOT-23)

For more information visit: www.centrasemi.com/apps/hvps18

Use QR reader for direct link to this application's topology web page.

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Battery Charging Control

• MOSFETs

- CMUDM7004: 30V, 450mA, N-Channel (SOT-523)
- CEDM7001: 20V, 100mA, low profile N-Channel (SOT-883L)

• Schottky Diodes

- CMASH-4: 200mA, 40V (SOD-923)
- CFSH05-20L: 500mA, 20V, low V_F , low profile (SOD-882L)

• Zener Diodes

- CMOZ12L: 12V, 250mW low idle current (SOD-523)
- CMOZ9L1: 9.1V, 250mW low idle current (SOD-523)

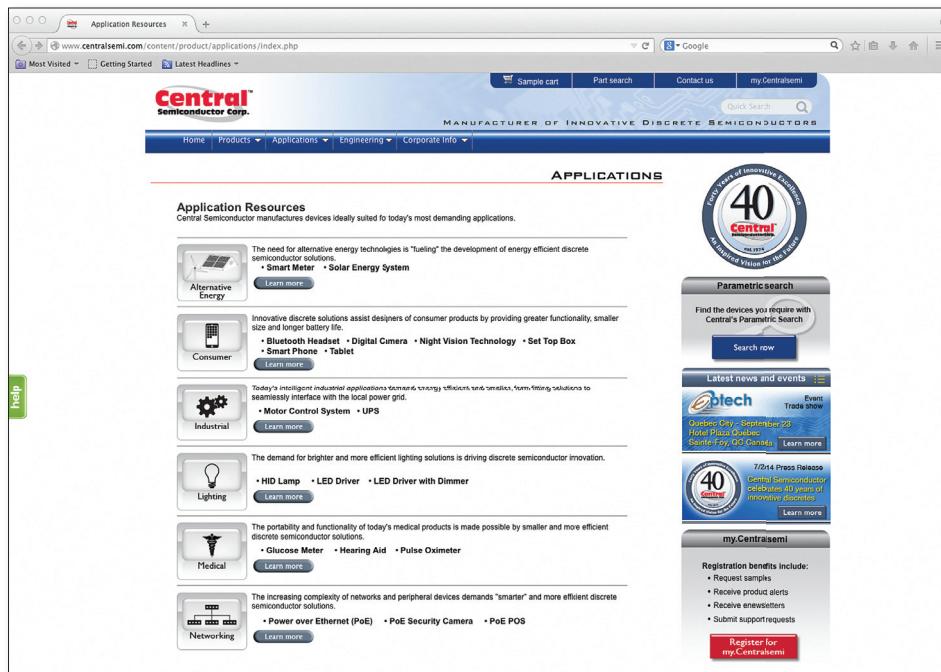
• Transient Voltage Suppressor

- CMF9.0A: 9V, 200W TVS (SOD-123F)

For more information visit: www.centrasemi.com/apps/bcc18

Applications Resources

Central Semiconductor's online Application Resources provide designers with an insightful overview of devices designed to meet the requirements of specific end product applications.



Use QR reader for direct link to Application Resources web page.

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Innovative Discrete Semiconductors

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