



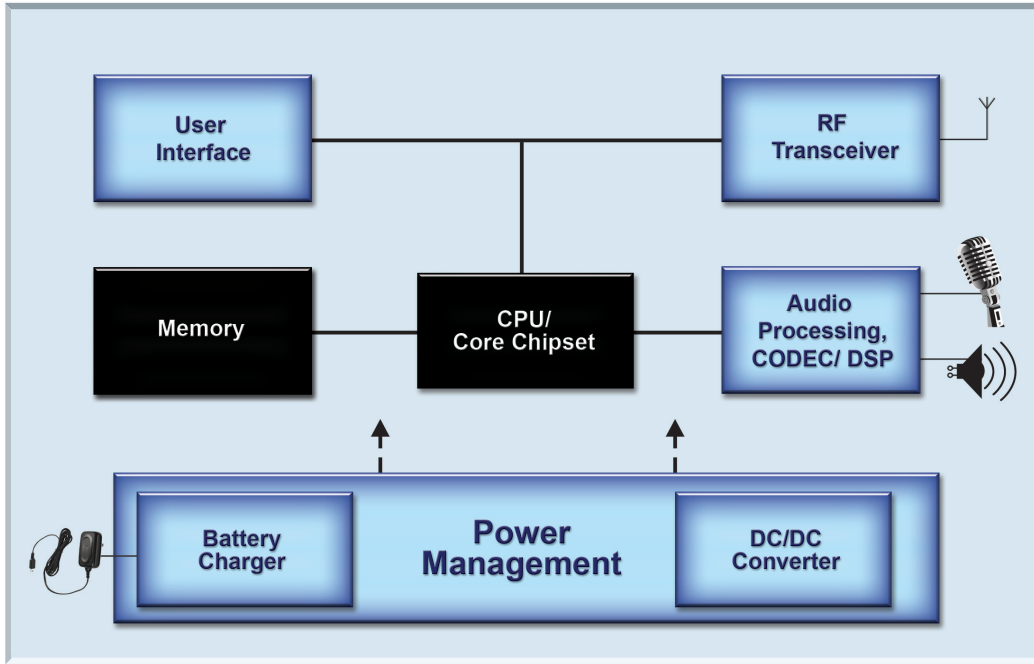
Bluetooth Headset



Today's sleek headset designs require semiconductors that have a very small footprint and a very low package profile. At the same time, since battery life of headsets is critical, semiconductor components must be very efficient in terms of energy consumption. Not to be overlooked is the need for ESD protection that arises from frequent human contact with headset controls. Central Semiconductor has a complete line of discrete semiconductors that satisfies all of these rigorous design requirements.

For more information visit: www.centrasemi.com/product/bluetooth_hs

Bluetooth Headset Topology



User Interface

• ESD Transient Voltage Suppressors

- CMATVS5V0: 80W, 5.0V ESD TVS (SOD-923)
- CMOTVS5V7: 66W, 5.7V ESD TVS (SOD-523)
- CMO5V0LC: 12W, 5.0V Low Cap TVS (SOD-523)
- CFTVS5V0LC: 12W, 5.0V Low Cap TVS (SOD-882L)
- CTLTVS12: 35W, 9.0V Low Cap TVS (TLM2D3D6)
- CMATVS3V3: 80W, 3.3V ESD TVS (SOD-923)
- CTLTVS6V2: 35W, 4.0V Low Cap TVS (TLM2D3D6)

• Uni-polar Transient Voltage Suppressors (TVS)

- CMF5.0A: 5.0V, 200W (SOD-123F)

• TVS/Zener Array

- CMNTVS5V0: 5.0V 4-line, Low Cap ESD TVS Array (SOT-953)

For more information visit: www.centrasemi.com/apps/ui12

RF Transceiver

• ESD Transient Voltage Suppressors

- CMATVS5V0: 80W, 5.0V ESD TVS (SOD-923)
- CFTVS5V0LC: 12W, 5.0V Low Cap TVS (SOD-882L)
- CMATVS3V3: 80W, 3.3V ESD TVS (SOD-923)

• Diodes

- CFD4448: 250mA Low Leakage (SOD-882L)
- CMAD4448: 250mA Low Leakage (SOD-923)

• Schottky Diodes

- CTLSH01-30L: 100mA, 30V Low V_F (TLM2D3D6)
- CFSH01-30L: 100mA, 30V Low V_F (SOD-882L)

For more information visit: www.centrasemi.com/apps/rft12

weblink scan

Use QR reader for direct link to application web page.





Consumer

Bluetooth Headset

Audio Processing, CODEC / DSP

• Schottky Diodes

- CFSH01-30L: 100mA, 30V Low V_F (SOD-882L)
- CMOSH-4E: 200mA, 40V (SOD-523)

• Diodes

- CFD4448: 250mA Low Leakage (SOD-882L)
- CMAD4448: 250mA Low Leakage (SOD-923)

• ESD Transient Voltage Suppressors

- CMATVS5V0: 80W, 5.0V ESD TVS (SOD-923)
- CMATVS3V3: 80W, 3.3V ESD TVS (SOD-923)

For more information visit: www.centrasemi.com/apps/ap12



Samples



To order samples of these devices visit:
<http://web.centrasemi.com/search/sample.php>

Literature



New
SMD
SELECTION
GUIDE

Order your selection guide today.
Visit: web.centrasemi.com/search/sample.php

Power Management

Battery Charger

• Zener Diodes

- CMOZ3V3: 3.3V, 350mW (SOD-523)
- CMOZ6V2: 6.2V, 350mW (SOD-523)
- CMOZ12V: 12V, 350mW (SOD-523)

• Schottky Diodes

- CFSH05-20L: 500mA, 20V Low V_F (SOD-882L)

• Schottky Rectifiers

- CMSH1-20ML: 1.0A, 20V Low V_F (SMA)
- CMSH2-40FL: 2.0A, 40V (SMAFL)

• MOSFETs

- CEDM7002AE: 60V, 300mA N-Channel (SOT-883L)
- CMLDM7005: 20V, 650mA Dual N-Channel (SOT-563)
- CMUDM8005: 20V, 650mA P-Channel (SOT-523)
- CMLDM7585: 20V, 650mA Dual N-Channel / P-Channel (SOT-563)

For more information visit: www.centrasemi.com/apps/pmbc12

DC/DC Converter

• Zener Diodes

- CMOZ3V3: 3.3V, 350mW (SOD-523)
- CMOZ6V2: 6.2V, 350mW (SOD-523)
- CMOZ12V: 12V, 350mW (SOD-523)

• Schottky Diodes

- CFSH05-20L: 500mA, 20V Low V_F (SOD-882L)

• Schottky Rectifiers

- CMSH1-20ML: 1.0A, 20V Low V_F (SMA)
- CMSH2-40FL: 2.0A, 40V (SMAFL)

• MOSFETs

- CEDM7002AE: 60V, 300mA N-Channel (SOT-883L)
- CMLDM7005: 20V, 650mA Dual N-Channel (SOT-563)
- CMUDM8005: 20V, 650mA P-Channel (SOT-523)
- CMLDM7585: 20V, 650mA Dual N-Channel / P-Channel (SOT-563)

For more information visit: www.centrasemi.com/apps/pmd12



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