



Consumer

Application Brief

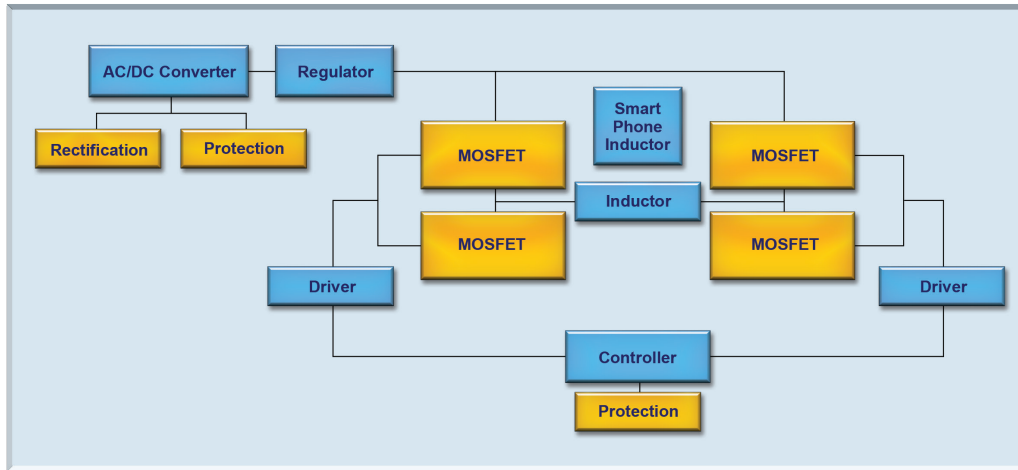


Wireless Charger







Wireless chargers have become a popular technology to simplify charging portable electronic products. Current models function through the use of an electromagnetic induction field generated around a primary coil, which is induced via efficient and rapid switching MOSFETs. It is critical that conduction and switching losses are minimized in all semiconductor devices to achieve a high level of efficiency. Central Semiconductor's diverse portfolio contains highly efficient rectifiers, MOSFETs, and protection devices ideal for wireless charging systems.

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



AC/DC Converter

• Bridge Rectifiers

-  CBR1-D060S: 600V, 1A (SMDIP)
-  CBR2-D060S: 600V, 2A (SMDIP)
-  CBR4M-L060: 600V, 4A (DM)
-  CBR6M-L060: 600V, 6A (DM)

• North America Protection




-  P6SMB200CA: 171V (SMB)

• Europe Protection




-  P6KE400CA: 343V (DO-15)

Protection

• Transient Voltage Suppressors (Power 12W-20W)

-  CFTVS5V0LC: 5V Logic (SOD-882L)
-  CFTVS5V0BULC: 5V Logic (SOD-882L)
-  CMO5V0LC: 5V Logic (SOD-523)

• Transient Voltage Suppressors (Power 25W-40W)





-  CMNTVS5V0: 5V Logic (SOT-953)
-  CTLTVS5V0B: 5V Logic (TLM2D3D6)
-  CTLTVS5V0BULC: 5V Logic (TLM2D3D6)

• Transient Voltage Suppressors (Power 60W-80W)







-  CMATVS5V0: 5V Logic (SOD-923)

MOSFETs

• MOSFETs

-  CWDM305N: 30V, 5.8A (SOIC-8)
-  CWDM3011N: 30V, 11A (SOIC-8)
-  CXDM4060N: 40V, 6A (SOT-89)
-  CXDM6053N: 60V, 5.3A (SOT-89)

• Protection; 20VGS Bi-Directional Gate TVS:

-  SMA6J11CA: 18.2VC, 600W (SMA)
-  1SMB11CA: 18.2VC, 600W (SMB)
-  3SMC11CA: 18.2VC, 3kW (SMC)
-  SMA6J12CA: 19.9VC, 600W (SMA)
-  1SMB12CA: 19.9VC, 600W (SMB)
-  3SMC12CA: 19.9VC, 3kW (SMC)