# new products & solutions:



View online: www.centralsemi.com/feature



#### Features:

- High voltage capability (650V)
- Low gate charge & r<sub>DS(ON)</sub> (as low as  $3.2m\Omega$ )
- · Efficient fast switching
- Space-saving DFN and CSP
- · Also available as bare die

- Applications:
- High power wireless
- healthcare, consumer)

## Benefits:

- Minimal power loss in conduction
- High frequency switching capability
- No reverse recovery losses

\*CDFG6511N-650, CDFG6517N-650, CCSPG0420N-40 available upon reguest. (40V | 20A, 50A)

Learn more:

www.centralsemi.com/featured-products/ganfets

# Hyperfast Rectifiers: 600V | 15/30A, 30/60A

#### Features:

- High voltage capability
- Dual diode for high current capability
- Low t<sub>r</sub> (as low as 30ns)
  Backside pad for thermal efficiency

require a

custom solution?

#### **Applications:**

Flyback diode for:

- Power Factor Correction (PFC) · Continuous Conduction Mode
- (CCM) Switch Mode Power Supplies
- (SMPS)

Just

Ask

#### Benefits:

- Energy efficiency
- Industry standard package
- Low switching losses
- Ideal for use with Super Junction MOSEETs

CRU24715-600 CRU24730-600



Learn more:

www.centralsemi.com/featured-products/dual-diode-rectifiers-cru-series

### **Capabilities include:**

custom device development

up-screening capabilities for high-rel applications

• Super Industrial<sup>™</sup> & Spacellite<sup>™</sup> devices for extreme environments



- charging (defense/aerospace,
- Power Factor Correction (PFC)
- Electric vehicle inverters

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Semiconduc Rethink the Possibilities<sup>™</sup>

# Spacellite & Spacellite-Commercial 10 kRad N-Channel MOSFETs: 225V | 11A

#### Spacellite (Certified): CSLLDM22011-225F

These COTS devices are qualified and certified to NASA PEM-INST-001; meet radiation specifications ideal for LEO applications at reduced cost; and, meet exceptionally high quality and reliability standards.

#### Spacellite-Commercial: CSLCDM22011-225F

These COTS devices are qualified to Central's Spacellite standards and meet radiation specifications ideal for LEO applications at a reduced cost, while also meeting exceptionally high quality and reliability standards.

#### www.centralsemi.com/featured-products/space-grade-mosfets Learn more:

#### Benefits:

- Meet radiation specifications ideal
- for LEO (low earth orbit) High voltage capability
- Low gate charge (Q =4.45nC TYP) Low  $r_{DS(ON)}$  (0.3 $\Omega$  TYP)

CSLCDM22011-225F



## Current Limiting Diodes in low profile DFN123F package

#### Features:

- Constant current range
- Wide operating voltage
- High input impedance
- Low profile DFN123F package Bare die available,
- please consult

## **Applications:**

- LED lighting strings
- · Light dimming systems
- Alarm systems
- On/off indicators
- Differential amplifiers

### **Benefits:**

- Energy efficiency
- Space-savings
- Replacement for current limiting resistors
- Active current source performance

#### CMJDH080 Series CMJD0130 Series



DFN123F

Learn more:

www.centralsemi.com/featured-products/36

# Current Limiting Diodes: Zero temperature coefficient, regulator current 27.5mA-575mA

#### Features:

- Constant current range
- Temperature independance
- High stability over wide temperature range
- Nominal current regulation at low voltage input

#### Applications:

- High intensity lighting systems
- Infrastructure lighting systems
- LED drivers
- Light dimming systems

Just

Ask

Test/measurement equipment

#### **Benefits:**

- · Eliminates need for additional resistors
- Active current source performance
- Optimized for heat dissipation

CDCLD025 Series CDCLD200 Series



Learn more:

www.centralsemi.com/featured-products/35



#### **Capabilities include:**

custom device development

- up-screening capabilities for high-rel applications
- Super Industrial<sup>™</sup> & Spacellite<sup>™</sup> devices for extreme environments

# new products & solutions:

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#### Transient Voltage Suppressors: High voltage, 3kA, 12V-380V | 6kA, 42V-240V CAK3-012C Series Applications: **Benefits:** Features: CAK6-042C Series Very low clamping voltage Energy efficiency • 5G telecom power supplies (as low as 28V) High power surge protection • Glass passivated chip for Bi-directional TVS optimum reliability • ESD protection of data lines in Wide voltage range accordance with IEC 61000-4-2 Learn more: www.centralsemi.com/featured-products/34 ΔK

# Bridge Rectifier: High voltage, low profile, 4A | 1000V

#### Features:

- High 4.0A current rating
- · Low V<sub>F</sub> Diodes
- (1.0V MAX @ I<sub>F</sub>=4.0A)
- DFN style package

#### Applications:

- Consumer & I/S/M built-in power supplies (low profile)
   Consumer & I/S/M fast
- chargers (low profile)

#### Benefits:

- Energy efficiency
- Space-savings
- Exceptionally low profile package (1.55mm)
- RoHS and REACH compliant



#### Learn more: <u>www.centralsemi.com/featured-products/31</u>

# Current Limiting Diode: Adjustable from 50mA-80mA | 50V

#### Features:

- Constant current range
- Adjustable regulation to 80mA
- Wide operating voltage
   Negative temperature
- coefficient for LED protection

#### Applications:

- LED lighting and displays
- $\cdot$  AC lighting panels
- Decorative lighting
- Test and measurement
   equipment

#### Benefits:

- Eliminates need for additional regulation
- Space savings
- Low profile package
  - RoHS and REACH compliant

Top View Bottom View

DFN123F

CMJA5050

Learn more:

www.centralsemi.com/featured-products/28



#### Capabilities include:

custom device development

- up-screening capabilities for high-rel applications
- Super Industrial<sup>™</sup> & Spacellite<sup>™</sup> devices for extreme environments
- Central Semiconductor Corp. 1.631.435.1110 www.centralsemi.com