

new products & solutions:

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CentralTM
Semiconductor Corp.

Rethink the PossibilitiesTM

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



Top View

Bottom View

DFN123F

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

Features:

- Constant current range
- Temperature independence
- 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
- Test/measurement equipment

Benefits:

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

CDCLD025 Series
CDCLD200 Series



DPAK

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Transient Voltage Suppressors: High voltage, 3kA, 12V-380V | 6kA, 42V-240V

Features:

- Very low clamping voltage (as low as 28V)
- Bi-directional TVS
- ESD protection of data lines in accordance with IEC 61000-4-2

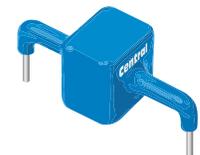
Applications:

- 5G telecom power supplies
- High power surge protection

Benefits:

- Energy efficiency
- Glass passivated chip for optimum reliability
- Wide voltage range

CAK3-012C Series
CAK6-042C Series



AK

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require a
custom solution?

Just
Ask

Capabilities include:

- custom device development
- up-screening capabilities for high-rel applications
- Super IndustrialTM & SpacelliteTM devices for extreme environments

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

Features:

- High 4.0A current rating
- Low V_F Diodes (1.0V MAX @ $I_F=4.0A$)
- 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

CBRDFA4-100



Top View

Bottom View

BR DFN-A

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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
- AC lighting panels
- Decorative lighting
- Test and measurement equipment

Benefits:

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

CMJA5050



Top View

Bottom View

DFN123F

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Silicon Carbide Schottky Rectifier Bare Die: 4A-50A | 650V & 1200V

Features:

- Positive temperature coefficient
- Low reverse leakage current
- Temperature independent switching characteristics
- High operating junction temperature

Applications:

- Power inverters
- Industrial motor drives
- Switch-mode power supplies
- Power factor correction (PFC)
- Over-current protection

Benefits:

- Metallization suitable for standard die attach technologies
- Top metallization optimized for wire bonding
- Wide current range
- Power efficiency

CPC08 thru CPC15



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require a
custom solution?

Just
Ask

Capabilities include:

- custom device development
- up-screening capabilities for high-rel applications
- Super Industrial™ & Spacelite™ devices for extreme environments