

CSHD8-60  
CSHD8-100  
CSHD8-200

**SURFACE MOUNT SILICON  
SCHOTTKY RECTIFIERS  
8.0 AMP, 60 THRU 200 VOLT**



**DPAK CASE**



[www.centralemi.com](http://www.centralemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD8-60, CSHD8-100 and CSHD8-200 are silicon Schottky rectifiers with an 8.0 Amp forward current rating and a very high reverse voltage capability. The reverse capability of these devices makes them the ideal solution for high efficiency, high voltage applications such as solid state lighting, DC-DC converters, and a host of other power management uses.

**MARKING: FULL PART NUMBER**

**FEATURES:**

- High reverse voltage capability
- Energy efficient, low forward voltage ( $V_F$ )
- Low reverse leakage at elevated temperature
- High surge capability

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Peak Repetitive Reverse Voltage

DC Blocking Voltage

RMS Reverse Voltage

Average Forward Current ( $T_L=75^\circ\text{C}$ )

Peak Forward Surge Current,  $t_p=8.3\text{ms}$

Voltage Rate of Change (Rated  $V_R$ )

Operating and Storage Junction Temperature

Typical Thermal Resistance

| SYMBOL         | CSHD8-60 | CSHD8-100   | CSHD8-200 | UNITS              |
|----------------|----------|-------------|-----------|--------------------|
| $V_{RRM}$      | 60       | 100         | 200       | V                  |
| $V_R$          | 60       | 100         | 200       | V                  |
| $V_{R(RMS)}$   | 42       | 70          | 140       | V                  |
| $I_O$          |          | 8.0         |           | A                  |
| $I_{FSM}$      |          | 85          |           | A                  |
| $dv/dt$        |          | 10,000      |           | V/ $\mu\text{s}$   |
| $T_J, T_{stg}$ |          | -65 to +175 |           | $^\circ\text{C}$   |
| $\theta_{JL}$  |          | 5.0         |           | $^\circ\text{C/W}$ |

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

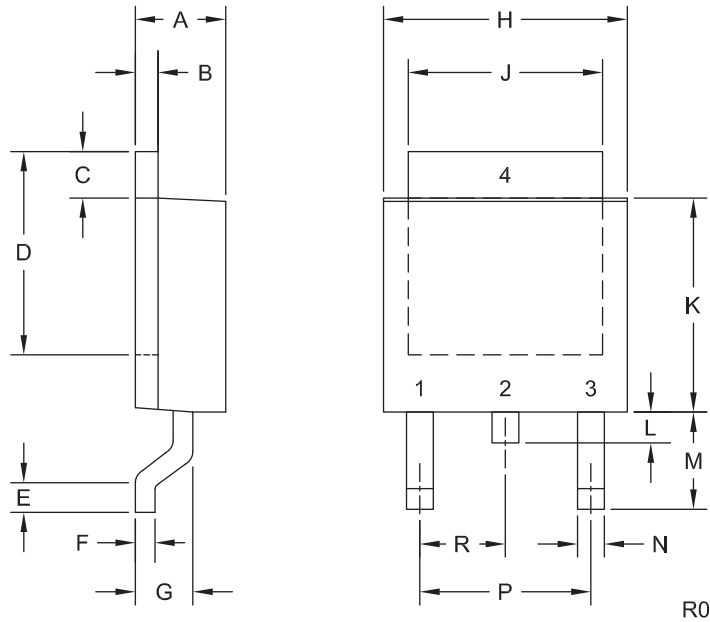
| SYMBOL | TEST CONDITIONS                                    | MAX  | UNITS         |
|--------|----------------------------------------------------|------|---------------|
| $I_R$  | $V_R=\text{Rated } V_{RRM}$                        | 50   | $\mu\text{A}$ |
| $I_R$  | $V_R=\text{Rated } V_{RRM}, T_J=100^\circ\text{C}$ | 20   | mA            |
| $V_F$  | $I_F=8.0\text{A}$ (CSHD8-60)                       | 0.75 | V             |
| $V_F$  | $I_F=8.0\text{A}$ (CSHD8-100)                      | 0.80 | V             |
| $V_F$  | $I_F=8.0\text{A}$ (CSHD8-200)                      | 0.90 | V             |

CSHD8-60  
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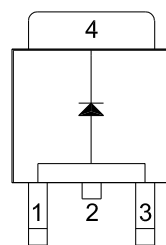
# **DPAK CASE - MECHANICAL OUTLINE**



## **LEAD CODE:**

- 1) Anode
  - 2) Cathode
  - 3) Anode
  - 4) Cathode
- Pin 2 is common to the tab (4)

## **MARKING: FULL PART NUMBER**



| SYMBOL | DIMENSIONS |       |             |      |
|--------|------------|-------|-------------|------|
|        | INCHES     |       | MILLIMETERS |      |
|        | MIN        | MAX   | MIN         | MAX  |
| A      | 0.083      | 0.108 | 2.10        | 2.75 |
| B      | 0.016      | 0.032 | 0.40        | 0.81 |
| C      | 0.035      | 0.063 | 0.89        | 1.60 |
| D      | 0.203      | 0.228 | 5.15        | 5.79 |
| E      | 0.020      | -     | 0.51        | -    |
| F      | 0.018      | 0.024 | 0.45        | 0.60 |
| G      | 0.051      | 0.071 | 1.30        | 1.80 |
| H      | 0.248      | 0.268 | 6.30        | 6.81 |
| J      | 0.197      | 0.217 | 5.00        | 5.50 |
| K      | 0.209      | 0.245 | 5.30        | 6.22 |
| L      | 0.025      | 0.040 | 0.64        | 1.02 |
| M      | 0.090      | 0.115 | 2.30        | 2.91 |
| N      | 0.012      | 0.045 | 0.30        | 1.14 |
| P      | 0.180      |       | 4.60        |      |
| R      | 0.090      |       | 2.30        |      |

DPAK (REV: R0)

R4 (11-June 2015)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

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### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

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