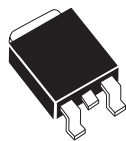


CSHD3-60

**SURFACE MOUNT  
SCHOTTKY SILICON RECTIFIER  
SINGLE, 3.0 AMPS, 60 VOLTS**

**DPAK  
POWER!**



**DPAK RECTIFIER CASE**

**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD3-60, silicon schottky rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer and automotive applications.

**MARKING CODE: FULL PART NUMBER**

**MAXIMUM RATINGS:** ( $T_C=25^\circ\text{C}$  unless otherwise noted)

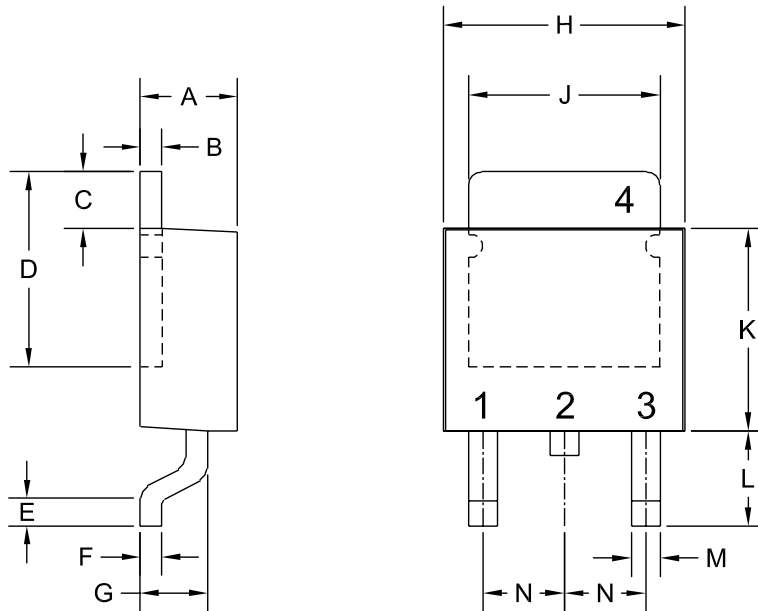
|   | <b>SYMBOL</b>  |             | <b>UNITS</b>       |
|---|----------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage                               | $V_{RRM}$      | 60          | V                  |
| Average Rectified Forward Current ( $T_C=120^\circ\text{C}$ ) | $I_O$          | 3.0         | A                  |
| Peak Forward Surge Current ( $t_p=10\text{ms}$ )              | $I_{FSM}$      | 50          | A                  |
| Peak Repetitive Reverse Surge Current ( $t_p=2\mu\text{s}$ )  | $I_{RRM}$      | 1.0         | A                  |
| Critical Rate of Rise of Reverse Voltage                      | $dv/dt$        | 10,000      | V/ $\mu\text{s}$   |
| Operating and Storage   |                |             |                    |
| Junction Temperature  | $T_J, T_{stg}$ | -65 to +150 | $^\circ\text{C}$   |
| Thermal Resistance  | $\theta_{JC}$  | 3.5         | $^\circ\text{C/W}$ |

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

| <b>SYMBOL</b> | <b>TEST CONDITIONS</b>                   | <b>MIN</b> | <b>MAX</b> | <b>UNIT</b>   |
|---------------|--|------------|------------|---------------|
| $I_R$         | $V_R=60\text{V}$                         |            | 30         | $\mu\text{A}$ |
| $I_R$         | $V_R=60\text{V}, T_C=125^\circ\text{C}$  |            | 10         | mA            |
| $V_F$         | $I_F=3.0\text{A}$                        |            | 0.75       | V             |
| $V_F$         | $I_F=3.0\text{A}, T_C=125^\circ\text{C}$ |            | 0.70       | V             |

R6 (30-September 2005)

**DPAK RECTIFIER CASE - MECHANICAL OUTLINE**



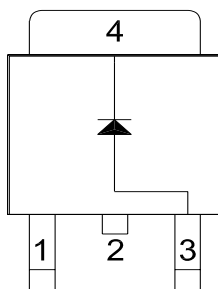
R2

**LEAD CODE:**

- 1) NO CONNECTION
- 2) CATHODE
- 3) ANODE
- 4) CATHODE

PIN 2 IS COMMON TO THE TAB (4).

**MARKING CODE: FULL PART NUMBER**



| SYMBOL | INCHES |       | MILLIMETERS |      |
|--------|--------|-------|-------------|------|
|        | MIN    | MAX   | MIN         | MAX  |
| A      | 0.083  | 0.108 | 2.10        | 2.75 |
| B      | 0.016  | 0.024 | 0.40        | 0.60 |
| C      | 0.063  |       | 1.60        |      |
| D      | 0.203  | 0.219 | 5.15        | 5.55 |
| E      | 0.039  |       | 1.00        |      |
| F      | 0.020  |       | 0.50        |      |
| G      | 0.051  | 0.071 | 1.30        | 1.80 |
| H      | 0.248  | 0.268 | 6.30        | 6.80 |
| J      | 0.197  | 0.217 | 5.00        | 5.50 |
| K      | 0.209  | 0.224 | 5.30        | 5.70 |
| L      | 0.090  | 0.106 | 2.30        | 2.70 |
| M      | 0.012  | 0.031 | 0.30        | 0.80 |
| N      | 0.091  |       | 2.30        |      |

DPAK RECTIFIER (REV: R2)