

CSHD5-25L

SURFACE MOUNT SILICON  
LOW  $V_F$   
SCHOTTKY RECTIFIER  
5.0 AMP, 25 VOLT

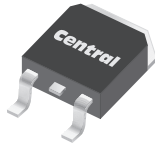


[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CSHD5-25L is a silicon Schottky rectifier designed for power applications requiring a low forward voltage drop.

LOW  
 $V_F$



DPAK CASE

**MARKING: FULL PART NUMBER**

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

|                                                               | SYMBOL         |             | UNITS                     |
|---------------------------------------------------------------|----------------|-------------|---------------------------|
| Peak Repetitive Reverse Voltage                               | $V_{RRM}$      | 25          | V                         |
| Average Rectified Forward Current ( $T_C=120^\circ\text{C}$ ) | $I_O$          | 5.0         | A                         |
| Peak Forward Surge Current, $t_p=10\text{ms}$                 | $I_{FSM}$      | 80          | A                         |
| Peak Repetitive Reverse Surge Current, $t_p=2.0\mu\text{s}$   | $I_{RRM}$      | 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                                            | $\theta_{JC}$  | 2.5         | $^\circ\text{C}/\text{W}$ |

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

| SYMBOL | TEST CONDITIONS                          | MAX  | UNITS         |
|--------|------------------------------------------|------|---------------|
| $I_R$  | $V_R=25\text{V}$                         | 500  | $\mu\text{A}$ |
| $I_R$  | $V_R=25\text{V}, T_C=125^\circ\text{C}$  | 200  | mA            |
| $V_F$  | $I_F=5.0\text{A}$                        | 0.47 | V             |
| $V_F$  | $I_F=5.0\text{A}, T_C=125^\circ\text{C}$ | 0.35 | V             |

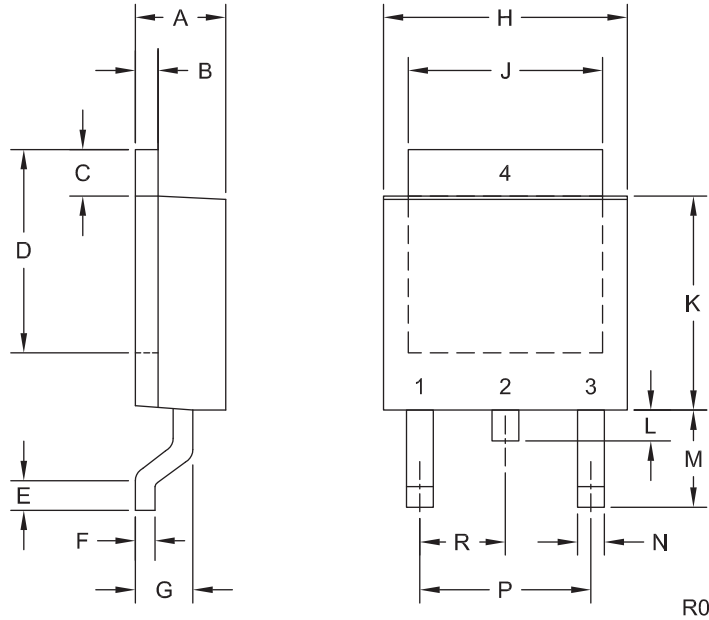
R5 (21-January 2013)

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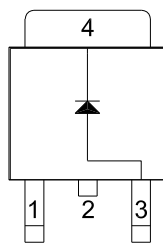
DPAK CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) No Connection
  - 2) Cathode
  - 3) Anode
  - 4) Cathode
- Pin 2 is common to the tab (4)

MARKING: FULL PART NUMBER



| DIMENSIONS |        |       |             |      |
|------------|--------|-------|-------------|------|
| SYMBOL     | 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)

R5 (21-January 2013)