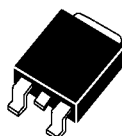




CSHD5-25L

SCHOTTKY RECTIFIER  
SINGLE, 5.0 AMPS, 25 VOLTS  
LOW FORWARD VOLTAGE DROP

LOW  
V<sub>F</sub>



DPAK CASE

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

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD5-25L is a Silicon Power Schottky Rectifier designed for surface mount power applications requiring a low forward voltage drop.

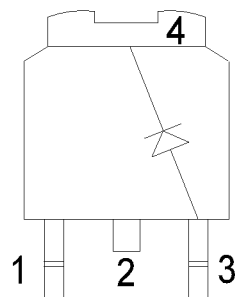
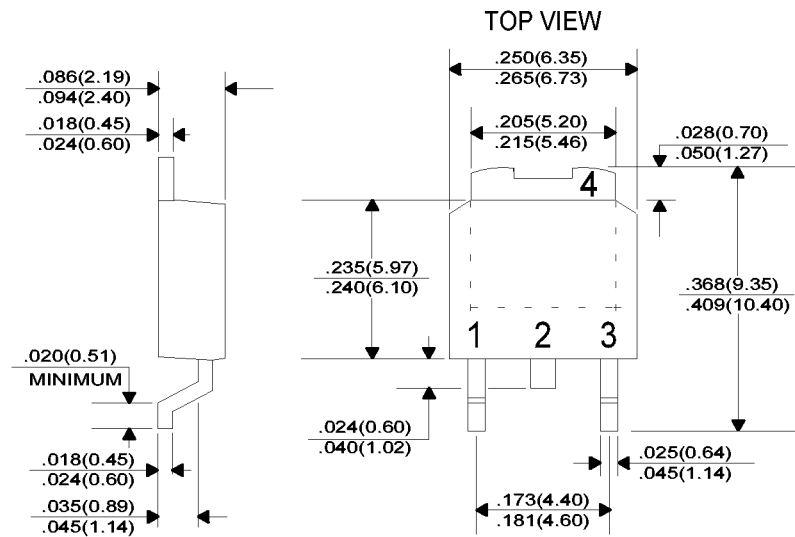
**MAXIMUM RATINGS:** (T<sub>C</sub>=25°C unless otherwise noted)

|                                                           | SYMBOL                            |             | UNITS |
|-----------------------------------------------------------|-----------------------------------|-------------|-------|
| Peak Repetitive Reverse Voltage                           | V <sub>RRM</sub>                  | 25          | V     |
| Average Rectified Forward Current (T <sub>C</sub> =120°C) | I <sub>O</sub>                    | 5.0         | A     |
| Peak Forward Surge Current (tp=10ms)                      | I <sub>FSM</sub>                  | 80          | A     |
| Peak Repetitive Reverse Surge Current (tp=2μs)            | I <sub>RRM</sub>                  | 1.0         | A     |
| Critical Rate of Rise of Reverse Voltage                  | dv/dt                             | 10,000      | V/μs  |
| Operating and Storage                                     |                                   |             |       |
| Junction Temperature                                      | T <sub>J</sub> , T <sub>stg</sub> | -65 to +150 | °C    |
| Thermal Resistance                                        | θ <sub>JC</sub>                   | 2.5         | °C/W  |

**ELECTRICAL CHARACTERISTICS:** (T<sub>C</sub>=25°C unless otherwise noted)

| SYMBOL         | TEST CONDITIONS                             | MIN | TYP | MAX  | UNIT |
|----------------|---------------------------------------------|-----|-----|------|------|
| I <sub>R</sub> | V <sub>R</sub> =25V                         |     |     | 500  | μA   |
| I <sub>R</sub> | V <sub>R</sub> =25V, T <sub>C</sub> =125°C  |     |     | 200  | mA   |
| V <sub>F</sub> | I <sub>F</sub> =5.0A                        |     |     | 0.47 | V    |
| V <sub>F</sub> | I <sub>F</sub> =5.0A, T <sub>C</sub> =125°C |     |     | 0.35 | V    |

All Dimensions in Inches (mm).



Lead Code:

- 1) No Connection
- 2) Cathode
- 3) Anode
- 4) Cathode

Pin 2 is common to the tab (4).

R1