



CSHD3-100

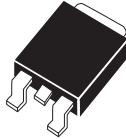
**SCHOTTKY RECTIFIER
SINGLE, 3.0 AMPS, 100 VOLTS
HIGH VOLTAGE**

**CentralTM
Semiconductor Corp.**

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CSHD3-100 is a Silicon Schottky Rectifier designed for surface mount high voltage applications requiring a low forward voltage drop.

DPAK^{POWER!}



DPAK CASE

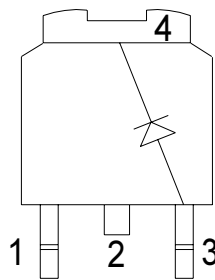
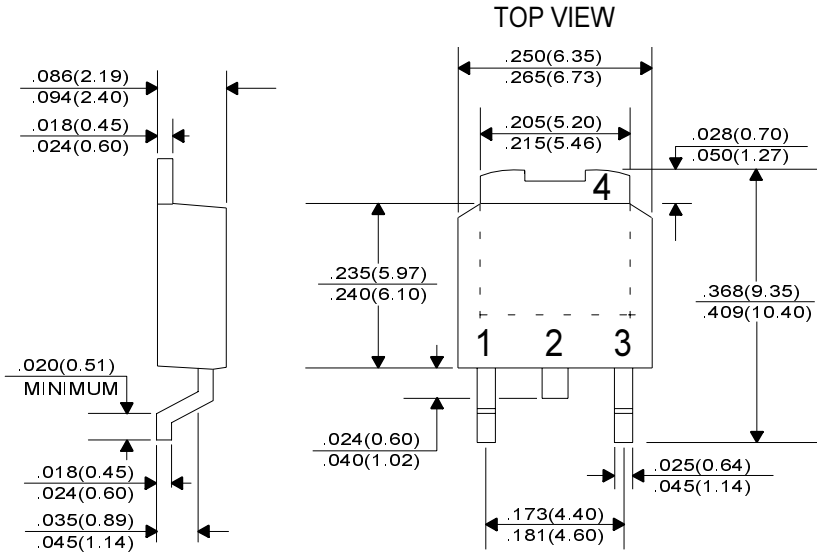
MAXIMUM RATINGS: ($T_C=25^{\circ}\text{C}$ unless otherwise noted)

| | SYMBOL | | UNITS |
|---|----------------|-------------|-----------------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 100 | 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 | $\text{V}/\mu\text{s}$ |
| Operating and Storage | | | |
| Junction Temperature | T_J, T_{stg} | -65 to +150 | $^{\circ}\text{C}$ |
| Thermal Resistance | θ_{JC} | 3.5 | $^{\circ}\text{C}/\text{W}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNIT |
|---------------|--|------------|------------|-------------|
| I_R | $V_R=100\text{V}$ | | 30 | mA |
| I_R | $V_R=100\text{V}, T_C=125^{\circ}\text{C}$ | | 10 | mA |
| V_F | $I_F=3.0\text{A}$ | | 0.85 | V |
| V_F | $I_F=3.0\text{A}, T_C=125^{\circ}\text{C}$ | | 0.80 | 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).