

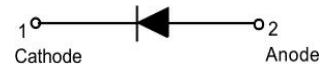
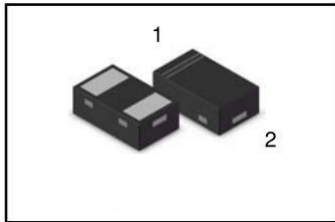
## Features

- Average forward current:  $I_{F(AV)} \leq 1.0A$
- Reverse voltage:  $V_R \leq 40V$
- Low forward voltage:  $V_F \leq 0.6V @ 1A$
- Low reverse current:  $I_R \leq 30\mu A @ 40V$
- Leadless ultra small SMD plastic package
- We declare that the material of product compliance with RoHS requirements and Halogen Free

## Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Low power consumption applications
- Ultra high-speed switching
- LED backlight for mobile application

**SOD882 (0402)**



**Marking: 4A**

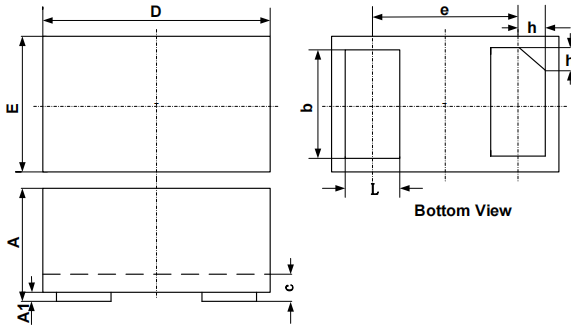
**Absolute Maximum Ratings** ( $T_{amb}=25^{\circ}C$  unless otherwise specified)

| Parameter                         | Symbol    | Limits   | Unit        |
|-----------------------------------|-----------|----------|-------------|
| Reverse voltage(DC)               | $V_R$     | 40       | V           |
| Average rectified forward current | $I_o$     | 1        | A           |
| Peak forward surge current        | $I_{FSM}$ | 400      | mA          |
| Junction temperature              | $T_j$     | 125      | $^{\circ}C$ |
| Storage Temperature Range         | $T_{STG}$ | -40~+125 | $^{\circ}C$ |

**Electrical Characteristics** ( $T_A=25^{\circ}C$  unless otherwise specified)

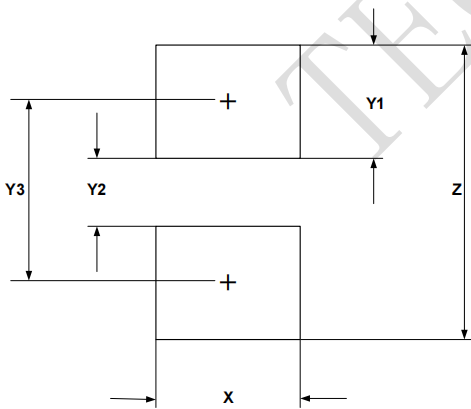
| Parameter       | Symbol | Min. | Max. | Unit    | Conditions  |
|-----------------|--------|------|------|---------|-------------|
| Forward voltage | $V_F$  | -    | 0.4  | V       | $I_F=100mA$ |
|                 |        | -    | 0.6  | V       | $I_F=1A$    |
| Reverse current | $I_R$  | -    | 30   | $\mu A$ | $V_R=40V$   |

## Outline Drawing - SOD882



| SYM | DIMENSIONS  |      |      |           |       |       |
|-----|-------------|------|------|-----------|-------|-------|
|     | MILLIMETERS |      |      | INCHES    |       |       |
|     | MIN         | NOM  | MAX  | MIN       | NOM   | MAX   |
| A   | 0.45        | 0.50 | 0.55 | 0.018     | 0.020 | 0.022 |
| A1  | 0.00        | 0.02 | 0.05 | 0.000     | 0.001 | 0.002 |
| b   | 0.45        | 0.50 | 0.55 | 0.018     | 0.020 | 0.022 |
| c   | 0.12        | 0.15 | 0.18 | 0.005     | 0.006 | 0.007 |
| D   | 0.95        | 1.00 | 1.05 | 0.037     | 0.039 | 0.041 |
| e   | 0.65 BSC    |      |      | 0.026 BSC |       |       |
| E   | 0.55        | 0.60 | 0.65 | 0.022     | 0.024 | 0.026 |
| L   | 0.20        | 0.25 | 0.30 | 0.008     | 0.010 | 0.012 |
| h   | 0.07        | 0.12 | 0.17 | 0.003     | 0.005 | 0.007 |

## Land Pattern - SOD882



| SYM | DIMENSIONS  |        |
|-----|-------------|--------|
|     | MILLIMETERS | INCHES |
| X   | 0.60        | 0.024  |
| Y1  | 0.50        | 0.020  |
| Y2  | 0.30        | 0.012  |
| Y3  | 0.80        | 0.032  |
| Z   | 1.30        | 0.052  |