

## CDSL4148-G/ 4448-G

Reverse Voltage: 75 Volts  
 Forward Current: 500mW  
 RoHS Device



### Features

Designed for mounting on small surface.

High speed switching.

High mounting capability, strong surge withstand, high reliability.

Also available in other smaller case styles:  
 CDSF4148/4448 - SOD323F (1005) size  
 CDSU4148/4448 - SOD523F (0603) size

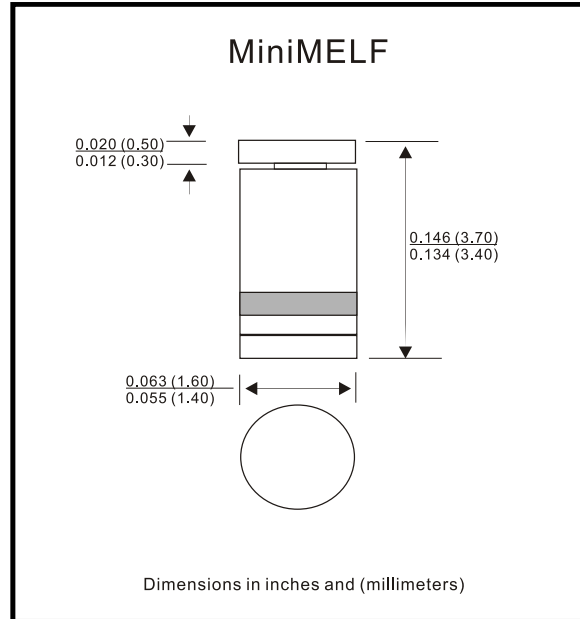
### Mechanical data

Case: MiniMelf glass case.

Terminals: Solder plated, solderable per MIL-STD-750, method 208.

Polarity: Indicated by cathode band.

Approx. weight: 0.05 gram



### Maximum Ratings and Electrical Characteristics ( at Ta = 25°C unless otherwise noted )

| Parameter                           | Condition                                    | Symbol | CDSL-4148-G  | CDSL-4448-G    | Unit |
|-------------------------------------|--|--------|--------------|----------------|------|
| Repetitive peak reverse voltage     |  | VRRM   | 75           |                | V    |
| Reverse voltage                     |  | VR     | 75           |                | V    |
| Forward current                     |  | IF     | 300          | 500            | mA   |
| Surge peak forward current          | T = 1us                                      | IFSM   | 2            |                | A    |
| Power dissipation                   |  | Pd     | 500          |                | mW   |
| Maximum forward voltage             | @ IF = 5 mA<br>@ IF = 10 mA<br>@ IF = 100 mA | VF     | -<br>1<br>-  | 0.72<br>-<br>1 | V    |
| Maximum reverse current             | @ VR = 75V<br>@ VR = 25V                     | IR     | 2.5<br>0.025 |                | uA   |
| Max reverse recovery time           | VR=6V, IF=10mA, R=50 ohms                    | Trr    | 4            |                | nS   |
| Max diode capacitance               | VR=0V, f=1MHz                                | CT     | 4            |                | pF   |
| Max. operation junction temperature |  | Tj     | 175          |                | °C   |
| Storage temperature                 |  | TSTG   | -65 to +175  |                | °C   |

## RATING AND CHARACTERISTIC CURVES (CDSL4148-G/4448-G)

Fig. 1 - Forward characteristics

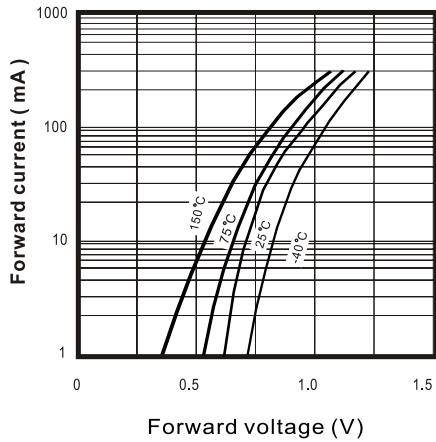


Fig. 2 - Reverse characteristics

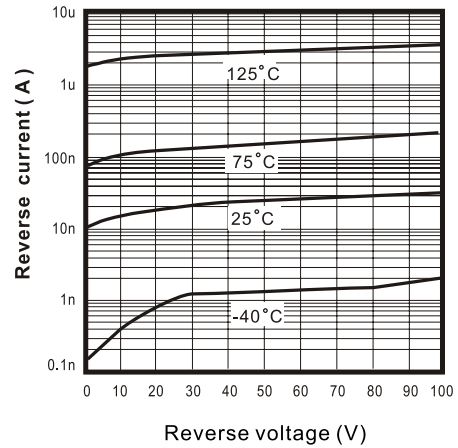


Fig. 3 - Capacitance between terminals characteristics

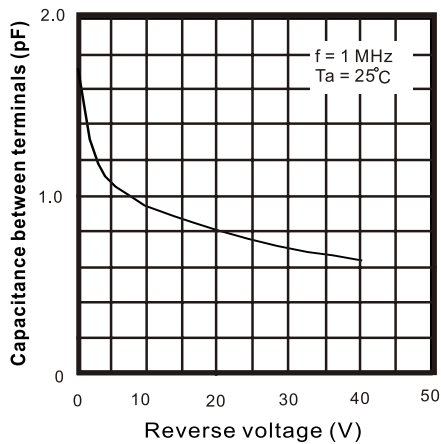


Fig. 4 - Power Derating Curve

