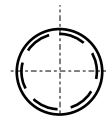
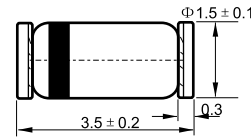



MINI MELF/SOD-80


Dimension in millimeters

Features

- ✧ Surge overload ratings to 2 amperes peak
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ✧ Terminal : Pure tin plated lead free,
- ✧ Mounting position: Any
- ✧ High temperature soldering : 260°C / 10 seconds at terminals
- ✧ Weight: 0.12 gram

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Maximum Ratings

| Type Number | Symbol | Value | Units |
|---|----------|--------------|-------|
| Repetitive Peak Reverse Voltage | VRRM | 100 | V |
| Reverse Voltage | VR | 75 | V |
| Forward Repetitive Peak Current (Note 1) | IFRM | 500 | mA |
| Forward Continuous Current (Note 1) | IFM | 300 | mA |
| Average Forward Current | IF (AV) | 150 | mA |
| Peak Forward Surge Current tp=1uS | IFSM | 2.0 | A |
| Power Dissipation (Note 1) | Pd | 500 | mW |
| Thermal Resistance Junction to Ambient Air (Note 1) | RθJA | 350 | K/W |
| Operating and Storage Temperature Range | TJ, TSTG | -65 to + 175 | °C |

Electrical Characteristics

| Type Number | Symbol | Min | Max | Units |
|---|--------|-----------|---------------|----------------|
| Forward Voltage IF=5.0mA IF= 50mA | VF | 0.62 - | 0.72 1.0 | V |
| Peak Reverse Current VR=20V VR=20V, Tj=150°C VR=75V | IR | - | 25 50 5 | nA uA uA |
| Junction Capacitance VR=0, f=1.0MHz | Cj | - | 4.0 | pF |
| Reverse Recovery Time (Note 2) | trr | - | 4.0 | nS |

- Notes:
1. Valid Provided that Terminals are Kept at Ambient Temperature.
 2. Reverse Recovery Test Conditions: IF=10mA, VR=6V, Irr=0.1 x IR, RL=100Ω.

RATINGS AND CHARACTERISTIC CURVES (LL4148)

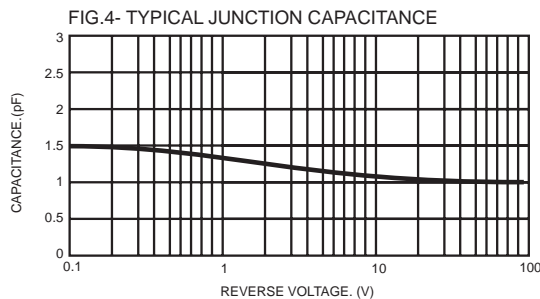
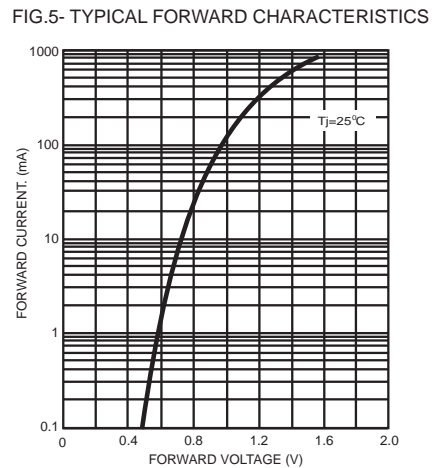
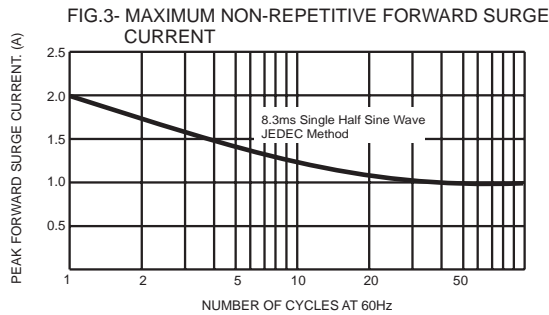
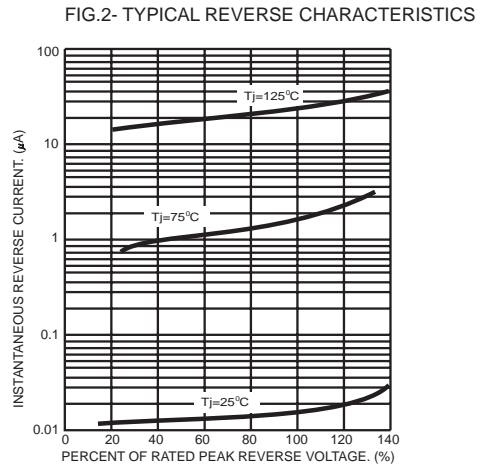
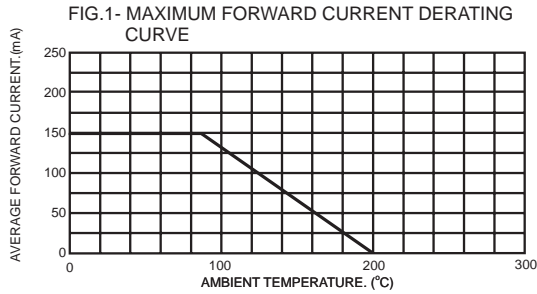
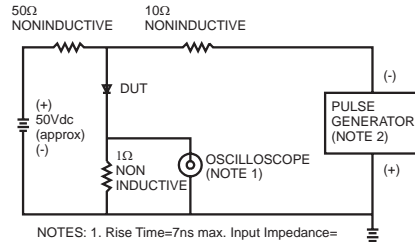


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf
 2. Rise Time=10ns max. Source Impedance= 50 ohms

