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Comimark CL01-12

Comimark CL01-12 Microwave Oven High Voltage Diode Rectifier User Manual

Model: CL01-12

1. Introduction

This manual provides essential information for the Comimark CL01-12 High Voltage Diode Rectifier, a component designed for use in microwave ovens. It covers product specifications, safety guidelines, and general installation considerations. This diode is a critical part of the microwave's high-voltage circuit, responsible for rectifying the high voltage supplied to the magnetron.

2. Important Safety Information

WARNING: Microwave ovens contain high-voltage components that can store a lethal electrical charge even when unplugged. Servicing a microwave oven can be extremely dangerous and should **only be performed by qualified and experienced technicians**. Attempting repairs without proper knowledge and safety precautions can result in severe injury or death.

- Always unplug the microwave oven from the power source before attempting any inspection or repair.
- Discharge the high-voltage capacitor before touching any internal components. This capacitor can retain a dangerous charge for an extended period.
- Wear appropriate personal protective equipment (PPE), including insulated gloves and safety glasses.
- Do not bypass any safety interlocks.
- Ensure the replacement part matches the original specifications.

Comimark is not responsible for any injury or damage caused by improper installation or handling of this product.

3. Product Overview and Specifications

The Comimark CL01-12 is a high-voltage diode rectifier designed for microwave oven applications. It is an essential component in the power supply circuit, converting high-voltage alternating current (AC) into direct current (DC) for the magnetron.



Image 3.1: A set of six Comimark CL01-12 high voltage diodes. Each diode features a cylindrical black body with metal terminals at both ends, one being a ring terminal and the other a spade terminal, designed for secure connection within a microwave oven's high-voltage circuit.

Technical Specifications:

Specification	Value
Model	CL01-12
Type	High Voltage Microwave Diode
Voltage Rating	12kV (12,000 Volts)

Specification	Value
Current Rating	350mA
Item Weight	Approximately 0.669 ounces per diode
Package Dimensions	4.49 x 3.07 x 0.35 inches (for the package of 6)



Image 3.2: A detailed view of a single Comimark CL01-12 high voltage diode, showing its black cylindrical casing and the distinct markings on its surface, along with the metal terminals for electrical connection.

4. Installation Guidelines

WARNING: As stated in the safety section, installation of this component involves working with extremely high voltages. It is strongly recommended that this procedure be carried out by a qualified and certified appliance repair technician. Improper installation can lead to serious injury, damage to the appliance, or fire.

General Steps (for qualified technicians only):

1. **Disconnect Power:** Unplug the microwave oven from the wall outlet.
2. **Discharge Capacitor:** Safely discharge the high-voltage capacitor using an appropriate discharge tool. Verify the discharge with a multimeter.
3. **Access Components:** Remove the microwave oven's outer casing to access the high-voltage circuit.
4. **Identify Diode:** Locate the existing high-voltage diode. Note its orientation and connections.
5. **Remove Old Diode:** Carefully disconnect the terminals of the old diode.
6. **Install New Diode:** Connect the new Comimark CL01-12 diode, ensuring the correct orientation and secure connections. The diode typically connects between the high-voltage capacitor and the chassis ground, or between the high-voltage transformer and the capacitor.
7. **Reassemble:** Reattach the microwave oven's casing.
8. **Test:** Plug in the microwave and perform a functional test.



Image 4.1: An angled perspective of the Comimark CL01-12 diode, highlighting the ring and spade terminals which are crucial for proper electrical connection within the microwave's high-voltage system.

5. Operational Function

The high-voltage diode in a microwave oven functions as a rectifier. It works in conjunction with the high-voltage transformer and capacitor to create the extremely high DC voltage (typically 2,000 to 5,000 volts) required to power the magnetron tube. The magnetron is responsible for generating the microwaves that heat food.
When the diode fails, the microwave oven may exhibit symptoms such as no heating, reduced heating power, or a loud buzzing noise during operation.

6. Maintenance

The Comimark CL01-12 high-voltage diode is a sealed component and does not require routine user maintenance. Its lifespan is generally determined by operational conditions and the overall health of the microwave's high-voltage circuit.
If your microwave oven is experiencing issues related to heating, it is recommended to have a qualified technician inspect the high-voltage components, including the diode, transformer, and capacitor, as part of a diagnostic procedure.

7. Troubleshooting Common Issues

If your microwave oven is not heating food, or is heating slowly, a faulty high-voltage diode could be a contributing factor. Other symptoms of a failing diode may include:

- Microwave runs but food remains cold.
- Loud buzzing or humming noise during operation.
- Blown fuse (though this can be caused by other component failures as well).

Important: Do not attempt to test or replace the diode yourself unless you are a qualified technician with experience in high-voltage electronics. Diagnosis and repair of microwave high-voltage circuits require specialized tools and knowledge to ensure safety.

8. Warranty and Support

For issues related to the quantity of products received, such as an incorrect number of diodes in your package, please contact the seller directly for assistance. The seller offers refunds or replacements for such discrepancies.
For technical support or questions regarding the installation and function of this component, it is recommended to consult with a professional appliance repair service.

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