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Comimark CL04-12

Comimark CL04-12 High Voltage Diode Rectifier User Manual

Model: CL04-12

1. Introduction

Thank you for choosing the Comimark CL04-12 High Voltage Diode Rectifier. This component is designed as a replacement part for various microwave ovens, playing a critical role in the high-voltage circuit to ensure proper operation. This manual provides essential information regarding its specifications, installation, and troubleshooting.

Important Safety Information

WARNING: Microwave ovens contain high-voltage capacitors that can store a lethal electrical charge even when the appliance is unplugged. Servicing a microwave oven can be extremely dangerous. It is strongly recommended that installation and repair be performed only by qualified and experienced technicians. Always discharge the high-voltage capacitor before attempting any work inside the microwave oven. Failure to follow these safety precautions can result in severe injury or death.

2. Product Overview

The Comimark CL04-12 is a one-way high voltage diode rectifier, essential for converting alternating current (AC) to direct current (DC) within the microwave's high-voltage system. It is compatible with models such as W10245187 and W10492278, among others.



Image: A set of five Comimark CL04-12 high voltage diodes, showcasing their design and quantity in the package.

Package Contents

- 5 x Comimark CL04-12 High Voltage Diode Rectifiers

Key Features

- High Voltage Rating: 12kV
- Current Rating: 0.45A
- One-Way Rectification
- Durable construction for reliable performance

3. Specifications

Attribute	Value

Attribute	Value
Brand	Comimark
Model Name	CL04-12
Item Model Number	LY470
Voltage Rating	12 Volts (12kV)
Current Rating	0.45A
Item Weight	0.01 ounces (approx.)
Package Dimensions	4.65 x 3.07 x 0.39 inches (approx.)
Material	Stainless Steel (connectors)
Country of Origin	China

4. Installation Guide

IMPORTANT: Due to the high voltage involved, it is crucial to exercise extreme caution. If you are not a qualified technician, seek professional assistance for installation.

1. **Disconnect Power:** Unplug the microwave oven from the wall outlet. Do not proceed until the appliance is completely disconnected from the power source.
2. **Access Internal Components:** Carefully remove the outer casing of the microwave oven to gain access to the internal high-voltage components. Refer to your specific microwave model's service manual for exact instructions.
3. **Discharge High-Voltage Capacitor:** This is a critical safety step. Using a properly insulated screwdriver with a grounded wire, discharge the high-voltage capacitor. Touch the metal shaft of the screwdriver to the capacitor terminals simultaneously to ensure it is fully discharged. Wait several minutes after discharge before touching any components.
4. **Locate the Old Diode:** Identify the existing high-voltage diode. It is typically connected between the high-voltage transformer and the capacitor.
5. **Remove the Old Diode:** Carefully disconnect the terminals of the old diode. Note the orientation of the diode before removal, as correct polarity is essential for the new diode.
6. **Install the New Diode:** Connect the Comimark CL04-12 diode, ensuring the correct orientation (polarity) as noted from the old diode. The diode has specific terminals for connection.
7. **Reassemble:** Securely reattach all components and replace the microwave oven's outer casing.
8. **Test:** Plug the microwave oven back into the power outlet and perform a test to ensure proper operation.

5. Functional Role (Operation)

The Comimark CL04-12 diode is an internal electronic component and is not directly operated by the user. Its function is to rectify the high voltage produced by the transformer, converting it into the pulsating DC voltage required by the magnetron to generate microwaves. When functioning correctly, it ensures the microwave oven heats food efficiently.

6. Maintenance

The CL04-12 high voltage diode itself requires no routine maintenance. Its lifespan is typically determined by the overall

health and usage of the microwave oven. To prolong the life of your microwave and its components, ensure proper ventilation, keep the interior clean, and avoid operating the microwave when empty.

7. Troubleshooting Common Issues

A faulty high-voltage diode is a common cause of microwave oven malfunctions. Here are some symptoms and testing considerations:

Symptoms of a Faulty Diode

- Microwave runs but does not heat food.
- Loud buzzing or humming noise during operation.
- Tripping the circuit breaker shortly after starting.
- Burning smell (less common for diode, but possible if other components are failing due to diode issue).

Diode Testing Considerations

Standard multimeters may not accurately test high-voltage diodes due to the high forward voltage drop required for conduction (often 5-14 volts). If your multimeter's diode test function uses a lower voltage, it may incorrectly indicate a faulty diode.

A common method to test these diodes involves a simple circuit:

1. Connect two 9-volt batteries in series (total 18V).
2. Connect a 1k Ohm resistor in series with the batteries.
3. Connect a general-purpose LED in series with the resistor.
4. Connect the diode under test in series with the LED.
5. When connected in the correct forward bias direction, the LED should light up. When connected in reverse bias, the LED should not light up. If the LED lights up in both directions or neither, the diode is likely faulty.



Image: A detailed view of a single Comimark CL04-12 diode, useful for identifying terminals during testing or installation.

8. Warranty and Support

Warranty Information

Specific warranty details for the Comimark CL04-12 High Voltage Diode Rectifier are not provided in the product data. For information regarding warranty coverage, terms, and conditions, please contact Comimark directly or the retailer from whom you purchased the product.

Customer Support

If you encounter any issues or have questions regarding the Comimark CL04-12 diode, please reach out to the seller or manufacturer for assistance. Provide your purchase details and a clear description of the issue to facilitate support.

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