

# Diode Component Verification Report

## 1. General Information

Report Number: DIO-2024-001  
Date: 2024-06-27  
Prepared by: Jane Doe  
Project: Power Supply Unit

## 2. Component Details

Component Type: Diode  
Part Number: 1N4007  
Manufacturer: Vishay  
Lot Number: LN2458

## 3. Visual Inspection

Condition: No visible damage; clear markings.

## 4. Electrical Measurements

Test	Specification	Measured Value	Status
Forward Voltage ( $V_F$ )	0.7V typ. at 1A	0.69V	Pass
Reverse Leakage Current ( $I_R$ )	$< 5\frac{1}{4}\mu\text{A}$ at 1000V	$3\frac{1}{4}\mu\text{A}$	Pass
Reverse Breakdown Voltage ( $V_{RRM}$ )	$> 1000\text{V}$	1100V	Pass

## 5. Conclusion

The 1N4007 diode component has passed both visual and electrical verification. The part is approved for use in the Power Supply Unit project.

Verified by: Jane Doe  
Date: 2024-06-27