

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)	< 5mA at 1000V	3mA	Pass
Reverse Breakdown Voltage (V_{RRM})	> 1000V	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