

OSRAM ZB-64514

OSRAM ZB-64514 300W Halogen Light Bulb User Manual

Model: ZB-64514 | Brand: OSRAM

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the OSRAM ZB-64514 300W Halogen Light Bulb. Please read these instructions carefully before installation and operation. Retain this manual for future reference.

The OSRAM ZB-64514 is a high-performance halogen lamp designed for various applications requiring intense, focused light. It operates at 120 Volts and consumes 300 Watts of power.



Image 1.1: Front view of the OSRAM ZB-64514 300W Halogen Light Bulb. This image displays the clear glass envelope, the internal coiled filaments, and the two metal pins at the base for electrical connection.

2. PRODUCT SPECIFICATIONS

Key technical specifications for the OSRAM ZB-64514 halogen bulb are listed below:

Specification	Value
Brand	OSRAM
Model Number	ZB-64514
Light Type	Halogen
Wattage	300 Watts
Voltage	120 Volts
Material	Copper (pins)
Color Rendering Index (CRI)	67
Item Weight	0.634 ounces
Pin Spacing	6.35 mm (G6.35 base)

Specification	Value
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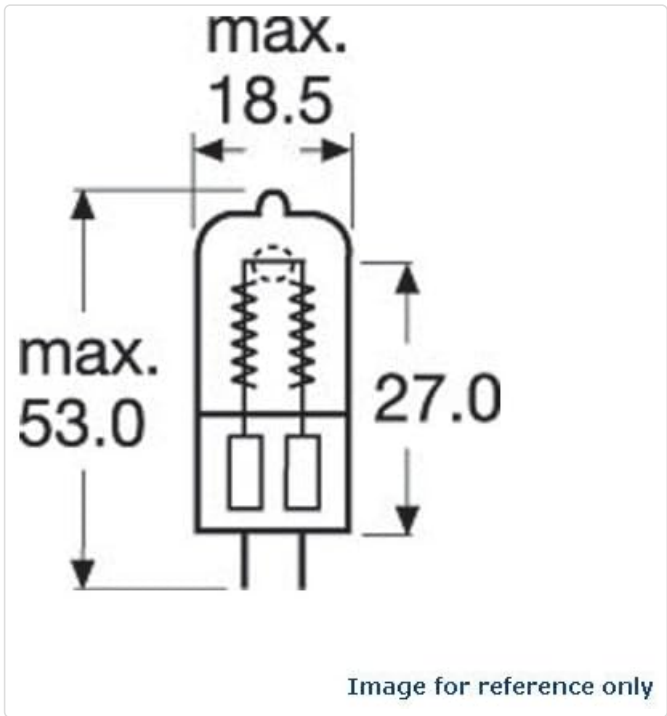


Image 2.1: Technical diagram illustrating the maximum dimensions of the OSRAM ZB-64514 bulb. The diagram shows a maximum length of 53.0 mm, a maximum width of 18.5 mm, and a filament length of 27.0 mm.

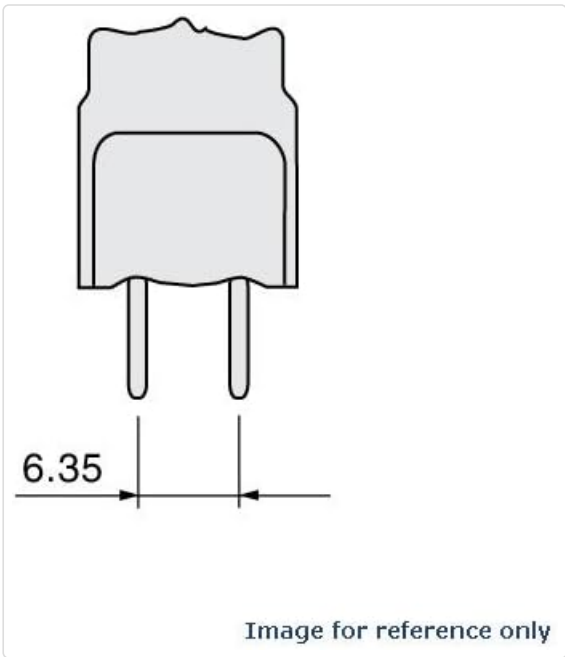


Image 2.2: Technical diagram detailing the pin spacing of the OSRAM ZB-64514 bulb. The diagram indicates a pin spacing of 6.35 mm, characteristic of a G6.35 base.

3. INSTALLATION (SETUP)

Proper installation is crucial for the safety and longevity of the bulb. Always ensure the power supply is disconnected before handling the bulb.

3.1 Pre-Installation Checks

- Verify that the fixture is compatible with a G6.35 base and can handle a 300W, 120V halogen bulb.
- Ensure the fixture is clean and free from debris.
- Confirm the power supply to the fixture is turned OFF at the circuit breaker.

3.2 Installation Steps

1. **Handle with Care:** Avoid touching the glass envelope of the bulb directly with bare hands. Oils from your skin can create hot spots, leading to premature bulb failure. Use a clean cloth or gloves when handling.
2. **Align Pins:** Carefully align the two pins of the ZB-64514 bulb with the corresponding sockets in the fixture.
3. **Insert Gently:** Gently push the bulb into the sockets until it is firmly seated. Do not force the bulb, as this can damage the pins or the fixture.
4. **Secure Fixture:** If applicable, re-secure any covers or protective elements of the light fixture.
5. **Restore Power:** Once the bulb is securely installed, restore power to the fixture at the circuit breaker.



Image 3.1: Angled view of the OSRAM ZB-64514 300W Halogen Light Bulb. This perspective highlights the robust construction of the pins and the clear glass, emphasizing the need for careful handling during installation.

4. OPERATION

The OSRAM ZB-64514 halogen bulb is designed for immediate full brightness upon power application.

4.1 General Operation

- Ensure the fixture is properly ventilated to prevent overheating, which can reduce bulb lifespan.
- Avoid frequent switching on and off, as this can stress the filament and shorten the bulb's life.
- Halogen bulbs operate at high temperatures. Do not touch the bulb during or immediately after

operation.

4.2 Operating Position

This bulb is designed to operate in specific orientations to ensure optimal performance and safety. Refer to the diagram below for permitted operating positions.

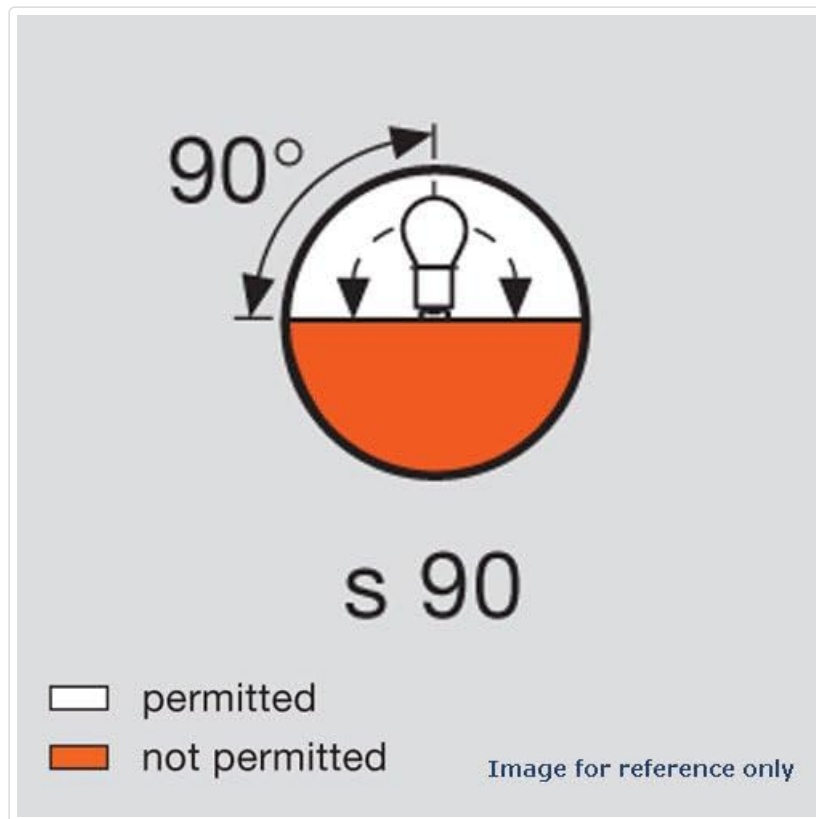


Image 4.1: Diagram indicating the permitted operating position for the OSRAM ZB-64514 bulb. The 's 90' symbol typically denotes that the bulb should be operated within a 90-degree angle from vertical, with the filament positioned as shown in the 'permitted' white area. Operation in the 'not permitted' orange area should be avoided.

5. MAINTENANCE

Halogen bulbs generally require minimal maintenance. However, proper care can extend their lifespan and ensure consistent performance.

5.1 Cleaning

- Ensure the bulb is completely cool and the power is disconnected before cleaning.
- If the glass envelope becomes dirty, gently wipe it with a clean, lint-free cloth dampened with rubbing alcohol. Allow the bulb to dry completely before re-installing or restoring power.
- Do not use abrasive cleaners or harsh chemicals.

5.2 Replacement

When the bulb reaches the end of its life, follow the installation steps in Section 3.2 in reverse to remove the old bulb, and then install a new OSRAM ZB-64514 bulb.

5.3 Disposal

Dispose of used halogen bulbs according to local regulations. Halogen bulbs do not contain mercury,

but proper disposal is still recommended.

6. TROUBLESHOOTING

If you encounter issues with your OSRAM ZB-64514 bulb, consider the following common problems and solutions:

- **Bulb Does Not Light:**
 - Check if the power supply to the fixture is on.
 - Ensure the bulb is correctly seated in the socket.
 - Inspect the bulb for visible damage (e.g., broken filament). If damaged, replace the bulb.
 - Verify the fixture itself is functioning correctly by testing with a known working bulb.
- **Bulb Burns Out Prematurely:**
 - Ensure the bulb's wattage and voltage match the fixture's requirements.
 - Check for excessive vibration or physical shock to the fixture.
 - Verify proper ventilation around the bulb to prevent overheating.
 - Avoid touching the glass envelope with bare hands during installation.
 - Ensure the bulb is operated within its permitted orientation (refer to Section 4.2).

7. SAFETY GUIDELINES

Adhering to these safety guidelines is essential to prevent injury and damage.

- **High Temperature:** Halogen bulbs become extremely hot during operation. Do not touch the bulb or surrounding fixture components until they have completely cooled down.
- **Burn Hazard:** Direct contact with a hot bulb can cause severe burns.
- **Fire Hazard:** Ensure the bulb is installed in a fixture designed for its wattage and type, and that there is adequate clearance from combustible materials.
- **UV Radiation:** While modern halogen bulbs often have UV filters, prolonged exposure to unfiltered halogen light can be harmful. Use only in fixtures designed to contain the bulb safely.
- **Eye Protection:** Avoid looking directly at the illuminated bulb, as its intense light can cause eye strain or damage.
- **Electrical Shock:** Always disconnect power before installing, removing, or cleaning the bulb.
- **Fragile:** The glass envelope is fragile. Handle with care to prevent breakage.

8. WARRANTY AND SUPPORT

OSRAM products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or visit the official OSRAM website. In case of technical issues or questions not covered in this manual, please contact OSRAM customer support or your authorized dealer.

For more information, visit the [OSRAM Store on Amazon](#).

