

Technical Information

No. FO 5099

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Mercury Short Arc Lamp
for Microlithography

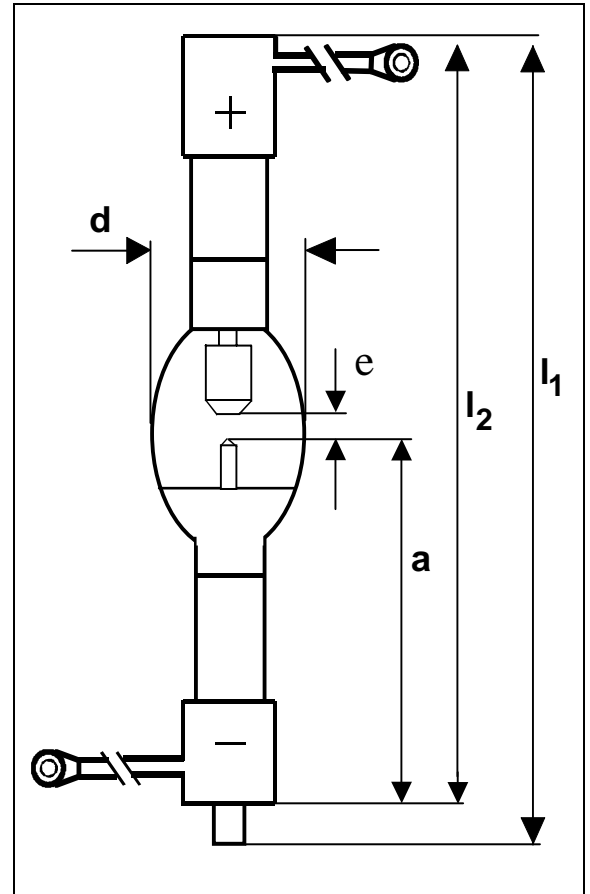
HBO[®] 2001 W/CIEL

■ Product description

The OSRAM HBO[®] 2001 W/CIEL is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is optimized for use in Canon equipment (e.g. FPA 3000 i4, i5, i5⁺, iw).

■ Technical data

| | | |
|---|------------------|----------------|
| Order reference | HBO [®] | 2001 W/CIEL |
| Rated lamp wattage | W | 2,000 |
| Rated lamp voltage | V | 26 |
| Rated lamp current (=) | A | 77 |
| Ignition voltage (cold) | kV _s | max. 30 |
| Radiant intensity (wave length range 365 ± 2,5nm) | mW/sr | 6,000 |
| Electrode gap e (cold) | mm | 4.5 |
| Lamp length (overall) l ₁ | mm | 327 / max. 329 |
| Lamp length l ₂ | mm | 307 / max. 309 |
| Bulb diameter d | mm | 62 |
| LCL a | mm | 148.75 |
| Guaranteed life | h | 2,250 |



| | |
|------|---|
| Base | <ul style="list-style-type: none">• Cathode: SFa 33.5-10/50 with cable connection (M6)• Anode: SF 33.5/50 with cable connection (M8) |
|------|---|

■ Lamp operation

| | | |
|--------------------------------------|-----------------------------|-----|
| Maximum permissible base temperature | °C | 200 |
| Cooling | forced base cooling | |
| Burning position | vertical, anode (+) upwards | |

■ Safety Instruction

Due to their high luminous efficacy, the UV radiation which they emit and the high pressure within the lamp, HBO[®] lamps must be operated within enclosed, purpose-built housings. When a lamp breaks, mercury is released. Particular safety regulations must be paid attention (for details please request technical information sheet no. FO 4574).

