

Technical Information

No. FO 5393

Edition: 05/06 - subject to change

Substitutes: Edition 10/05

Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO[®] 2001 W/CIELX

■ Product description

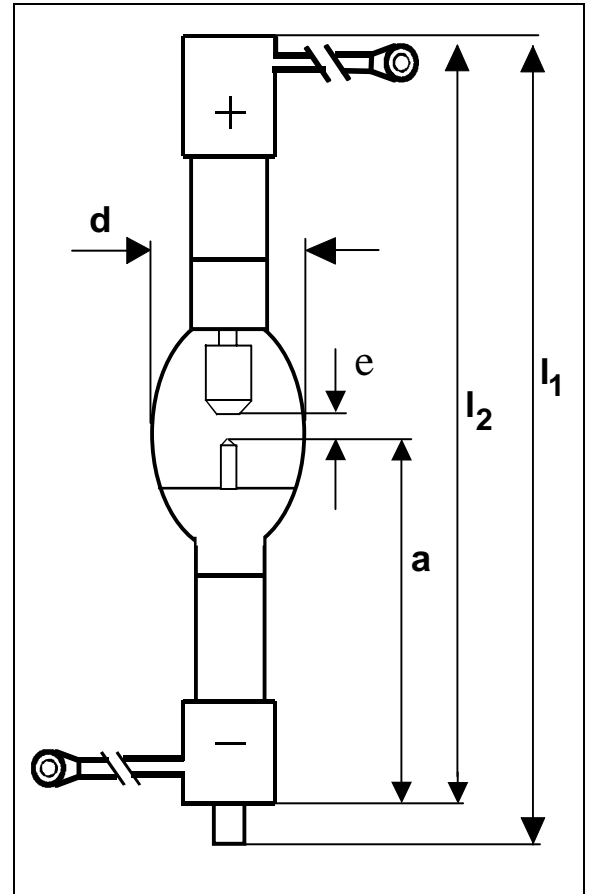
The OSRAM HBO[®] 2001 W/CIELX is an improved version of the HBO 2001 W/CIEL with an increased intensity. It is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits (microlithography). This lamp type emits a very high radiant intensity in the ultraviolet and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

■ Technical data

Order reference	HBO [®]	2000 W/CIELX
Rated lamp wattage	W	2,000
Rated lamp voltage	V	24
Rated lamp current (=)	A	83
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

- 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).

