Technical Information

No. FO 4521

Edition: 06/00 - subject to change

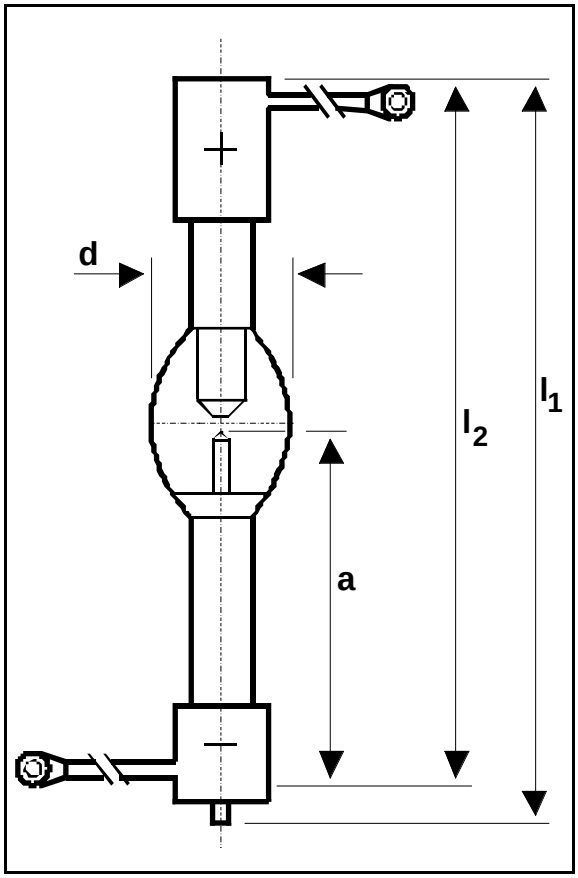
Substitutes: Edition 11/98
Status: valid

Mercury Short Arc Lamp
for Microlithography

HBO® 2001 W/CIL & /CI

n Product description

The OSRAM HBO® 2001 W/CIL 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, iw). The HBO® 2001 W/CIL is also available as standard-version HBO® 2001 W/CI with an average 850h service life.



n Technical data

Order reference	HBO®	2000 W/CIL	2000 W/CI
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	
Average service life	h	1.500	850
Base		• Cathode: SFa 33,5-10/50 with cable connection (M6) • Anode: SF 33,5/50 with cable connection (M8)	

n Lamp operation

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

The HBO® 2001 W/CIL can either be operated on standard ballasts or on electronic power supplies (ECG).

n Safety Instruction

Because 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).