

Technical Information

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Mercury Short Arc Lamp
for PCB manufacturing

HBO[®] 5000 W/MFN

■ Product description

The OSRAM HBO[®] 5000 W/MFN is a direct current mercury short arc lamp designed for the manufacture of printed circuit boards and semiconductor manufacturing. This lamp type emits a very high radiant intensity in the ultraviolet and visible wavelength range and is designed with the latest technology for a low intensity degradation over lifetime.

■ Technical data

Order reference	HBO [®]	5000 W/MFN
Rated lamp wattage	W	5.000
Rated lamp voltage	V	50
Rated lamp current (=)	A	100
Ignition voltage (cold)	kV _s	max. 25
Radiant intensity (350-450 nm)	mW/sr	60
Electrode gap e (cold)	mm	7,0
Lamp length (overall) l ₁	mm	364 (max)
Lamp length l ₂	mm	308
Bulb diameter d	mm	85
LCL a	mm	153
Service life	h	850

Base

- Cathode: SFc41-16/50 with cable connection (M8)
- Anode: SFc41-16/50 with cable connection (M8)

■ Lamp operation

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

■ 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).

