

Technical Information

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Mercury Short Arc Lamp
for PCB manufacturing

HBO[®] 5000 W/TA

■ Product description

The OSRAM HBO[®] 5000 W/TA is a direct current mercury short arc lamp designed for the manufacture of printed circuit boards and semiconductors. 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/TA
Rated lamp wattage	W	5,000
Rated lamp voltage	V	50
Rated lamp current (=)	A	100
Ignition voltage (cold)	kV _S	25 max.
Radiant intensity (350-450 nm)	W/sr	60
Electrode gap e (cold)	mm	7.5
Lamp length (overall) l ₂	mm	327.5 /max. 329,5
Bulb diameter d	mm	80
LCL a	mm	148.5
Guaranteed life	h	1200 Maintenance 1500 Explosion

Base	<ul style="list-style-type: none">• Cathode: SFa 33.5-12/50 with cable connection (M12)• Anode: SFa 33.5-12/50 with cable connection (M10)
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■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling	forced base cooling	
Burning position	vertical, anode (+) up	
Re-ignition	100 times (lamp intensity will be reduced by every re-ignition cycle)	

■ 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).

