

Technical Information

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Mercury Short Arc Lamp for Microlithography

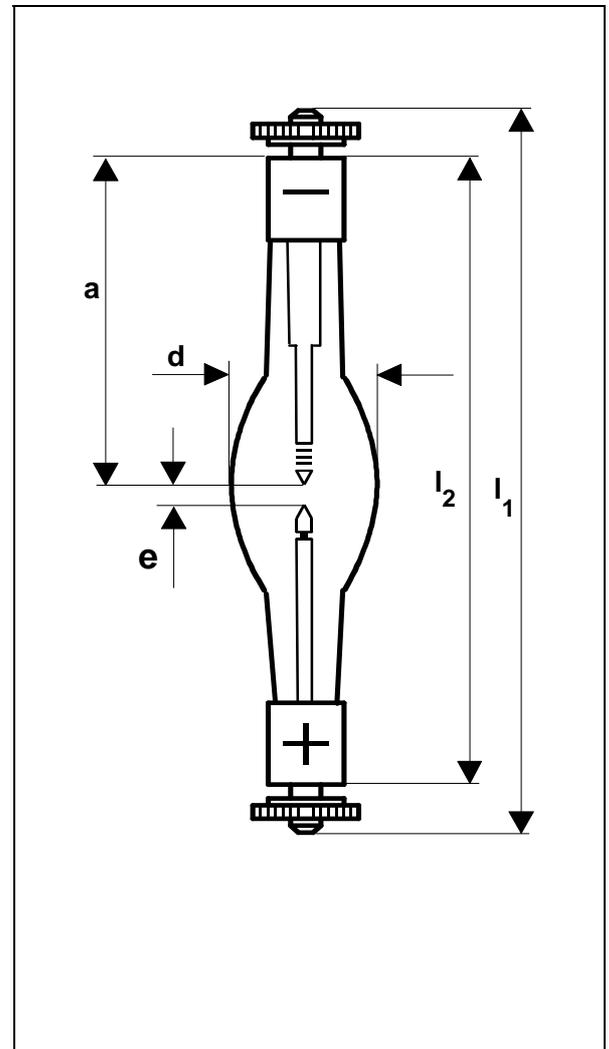
HBO[®] 350 W

■ Product description

The OSRAM HBO[®] 350 W is a direct current mercury short arc lamp designed for the manufacture of integrated circuits (microlithography). Emitting a very high radiant intensity in the 350 - 450 nm wavelength range, designed and optimized for ASM-L equipment (PAS 2500).

■ Technical data

Order reference		HBO [®] 350 W
Rated lamp wattage	W	350
Rated lamp voltage	V	67.5
Rated lamp current (=)	A	5.3
Ignition voltage	kV _s	max. 20
Radiant power (wave length range 350 - 450nm)	W	46
Radiant intensity (wave length range 350 - 450nm)	mW/sr	4,600
Average luminance	cd/cm ²	53,000
Electrode gap e	mm	2.9
Lamp length (overall) l ₁	mm	max. 128
Lamp length l ₂	mm	100 / max. 102
Bulb diameter d	mm	20
LCL a	mm	45
Guaranteed life	h	600
Base		SFCy 10-4/15 with thread 8-32 UNC-3B



■ Lamp operation

Maximum permissible base temperature	°C	200
Cooling	Convection and cooling fins upper base	
Burning position	vertical, anode (+) underneath	

■ 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 observed (for details please request technical information sheet no. FO 4574).

