Technical Information No. FO 4829 Edition: 09/10 - subject to change Substitutes: Edition 09/09 Status: valid

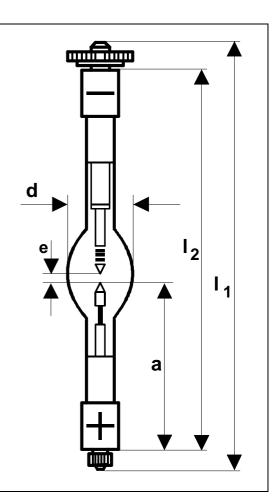
HBO[®] 1000 W/D

Product description

The OSRAM HBO[®] 1000 W/D is a direct current mercury short arc i-line lamp designed for the manufacture of integrated circuits. This lamp type emits a very high radiant intensity in the 350 - 450 nm wavelength range and is optimized for Suss mask aligners MA150, MA200, MA4, MA6, MA8.

Technical data

Order reference		HBO [®] 1000 W/D
Rated lamp wattage	W	1000
		Min./max. 900 / 1,200
Rated lamp voltage	V	37.7
Rated lamp current (=)	А	26.5
Ignition voltage (cold)	kV _S	max. 15
Radiant power (wave length range 350 450 nm)	W	105
Radiant intensity (wave length range 350 450 nm)	mW/sr	10,800
Electrode gap e (cold)	mm	3.0
Lamp length (overall) I1	mm	max. 240
Lamp length I ₂	mm	206 / max.208
Bulb diameter d	mm	40
LCL a	mm	89.5
Guaranteed life	h	1500 explosion
Base		SFc15-6/25ha with thread M6



Lamp operation

Maximum permissible base temperature	°C	230
Cooling		Convection
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 paid attention (for details please request technical information sheet no. FO 4574).

