



# APPLIED OPTIX™

## Semiconductor Systems

PRELIMINARY



## High Intensity Halogen Lamps

*Designed for Rapid Thermal Processing*

In modern semiconductor processing, purity is absolutely critical. Infrared radiation has proven far more efficient than conductive or convective heating systems in many annealing applications. Rapid Thermal Processing using high intensity light energy provides a non-contact clean solution. EYE Lighting / Iwasaki offers a complete line of quartz halogen high intensity lamps that deliver instant-on, and complete power control to supply optimum application flexibility. This ensures shorter process time and significantly reduces the time a wafer must be exposed to high temperature. These compact IR lamps save space and Iwasaki proprietary design technology assures long life performance.

EYE / Iwasaki has spent decades developing lighting and optics for semiconductor applications. These are only a few samples of our available products. If you need assistance with your application, or are just looking for replacement lamps, we welcome the opportunity to work with you.

- Ultra-high purity fill gas and material ensures long life and reliable performance
- Rugged bulb construction and sturdy mount system minimizes detrimental shock and vibration effects on lamp
- Heat resistant stainless steel body uniformly distributes heat prolonging lamp life
- Built-in fuse for added safety

Color Code	Description	Watts	Volts	Product Code	Filament	Initial lumens	CCT (K)*	Lamp Dwg. #
Black	JID82V500W Standard RTP unit	500	82	86810	CC-8	10600	3200	Fig. 1
Blue	JID82V550W High power standard unit	550	82	84685	CC-8	10700	3050	Fig. 3
Red	JID95V630W High Voltage / Output	630	95	84689	CC-8	13500	3000	Fig. 4
Black-long	JID82V520W Long sleeve design	520	82	89805	CC-8	10500	3050	Fig. 2
White	QAP120V2000W/G22	2000	120	86817	CC-8	42000	3000	N/A
Silver	JPD120V1000W/G9.5	1000	120	89471	CC-8	27000	3200	N/A
Silver	JPD240V1000W/G9.5	1000	240	89620	CC-8	22000	3000	N/A

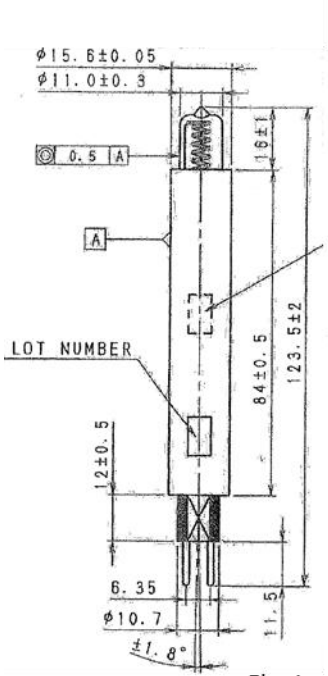


Fig. 1

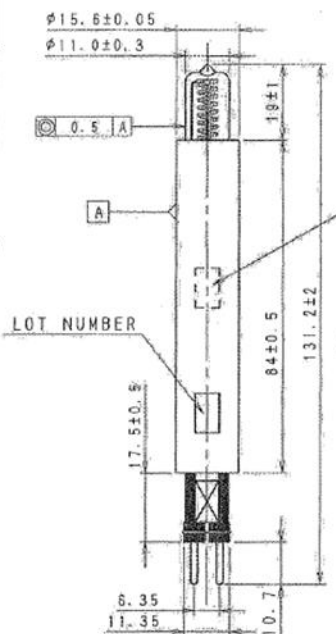


Fig. 2

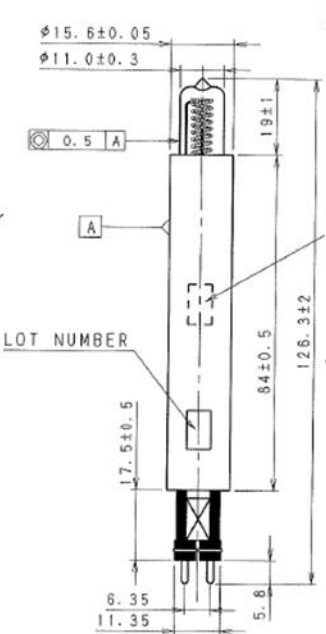


Fig. 3

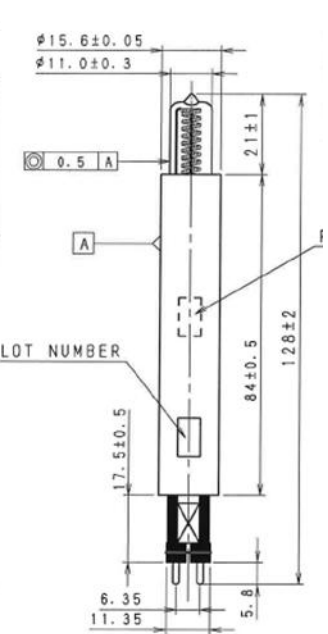


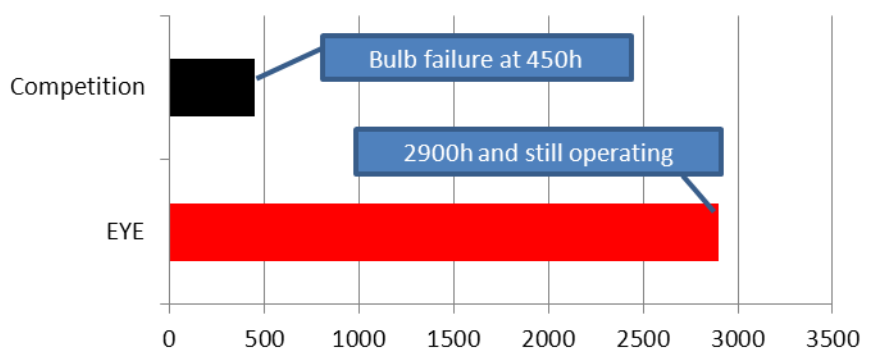
Fig. 4

Iwasaki manufactures high intensity halogen lamps for most existing equipment. If your lamp is not illustrated, please contact us to verify lamp selection and compatibility.

*EYE Lighting/Iwasaki solar lighting experience provides the expertise to assist you in the development of systems specific to your application requirements.*

*We welcome the opportunity to work with you to solve your application needs.*

**630W lamp Life Comparison**



**EYE Lighting International of North America, Inc.**  
a division of Iwasaki Electric of Japan

9150 Hendricks Road  
Mentor, Ohio 44060  
Tel: (888) 665-2677  
Fax: (800) 811-7395

[www.eyesolarlux.com](http://www.eyesolarlux.com)

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