USHIO

ULTRAVIOLET LAMPS

GERMICIDAL

GERMICIDAL LOW-PRESSURE MERCURY-ARC LAMPS

USHIO Germicidal lamps are Low-Pressure Mercury-Arc lamps that emit radiation peaking at 253.7nm(UV-C). This output at 253.7nm is highly effective to inactivate microorganisms such as bacteria, virus, yeast and mold.

Designed by experienced engineers, and by using quality material in combination with a tightly controlled manufacturing process, we provide high quality lamps free of impurities to maintain strong and stable output throughout the life of the lamp.

Our Germicidal lamps are manufactured at an ISO9001 certified facility. Emphasis on quality control and our large production capacity makes us an ideal OEM partner for providing consistent quality lamps with reliable delivery.

FEATURES & BENEFITS

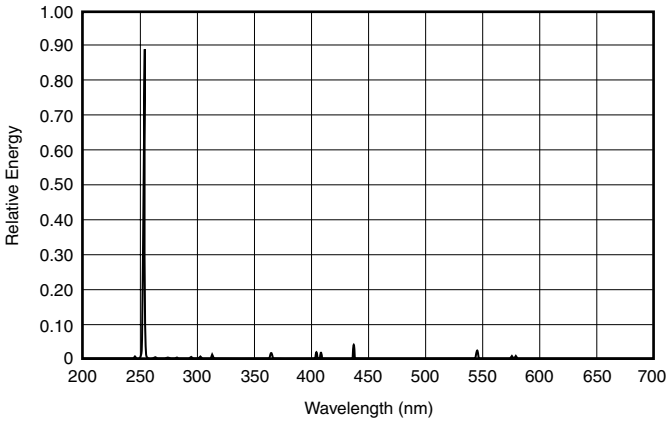
- Low Mercury dose to meet environmental demands
- Specially formulated coating achieves high output over long life hours
- High purity lamp construction to stabilize UV output and minimizes depreciation (averages 20-25% depreciation at end of life)
- Large production capacity providing lamps with consistent quality and reliable delivery
- Flexible design capability for custom lamp development

APPLICATIONS

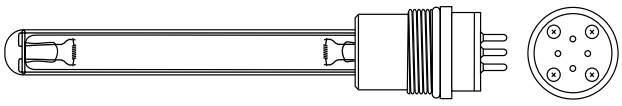
- Drinking Water
- Wastewater
- Air Conditioning System
- Medical Facility
- Pharmaceutical Production Facility
- Food Processing Facility
- Packaging Materials
- Laboratory/Research
- Photochemistry
- Phototherapy
- Dermatology
- Clean Room
- Other Sterilization & Disinfection needs

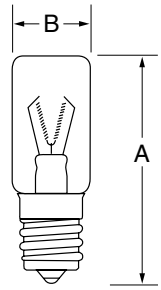
Distributed by:

SPECTRAL DISTRIBUTION
GERMICIDAL LAMP
253.7nm

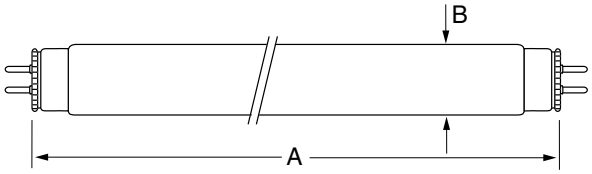


Double Tube Model is available by request
Contact USHIO's Germicidal product manager for more information

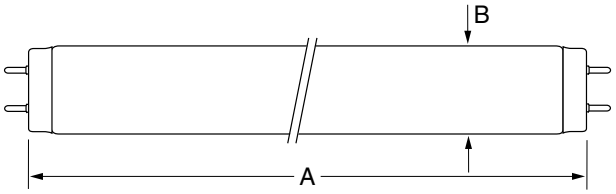




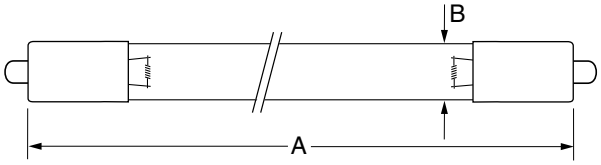
E17 Base



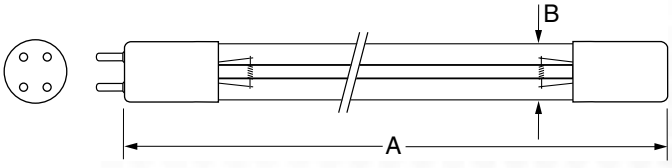
T5 Miniature Bi Pin G5 Base



T8 & T10 Medium Bi Pin G13 Base



T5 Single Pin Base



T5 4-Pin Base

USHIO

CHARACTERISTICS & SPECIFICATIONS

USHIO Ordering Code	USHIO Lamp Code	Dimensions Length (A) (mm)	(in)	Diameter (B) (mm)	(in)	Watts (W)	Current (A)	Volts (V)	Spectral Peak (nm)	UV Output (W)	Avg Life (h)	Base
	E17 BASE											
3000022	GTL3	63.0	2.48	20.0	0.79	3.0	0.300	10.5	253.7	0.16	3000	E17
	T5 - MINIATURE BI PIN G5 BASE											
3000013	G4T5	134.5	5.30	15.5	0.61	4.5	0.170	29.0	253.7	0.8	6000	G5
3000015	G6T5	210.5	8.29	15.5	0.61	6.0	0.160	42.0	253.7	1.8	8000	G5
3000309	G7T5	165.0	6.50	15.5	0.61	6.3	0.230	30.0	253.7	1.6	8000	G5
3000016	G8T5	287.0	11.30	15.5	0.61	7.2	0.145	57.0	253.7	2.2	8000	G5
3000310	G11T5	210.5	8.29	15.5	0.61	11.0	0.330	37.0	253.7	2.2	8000	G5
3000311	G16T5	287.0	11.30	15.5	0.61	16.0	0.350	50.0	253.7	3.2	8000	G5
3000344	G20T5	400.0	15.75	15.5	0.61	20.0	0.400	62.0	253.7	5.5	8000	G5
	T8 - MEDIUM BI PIN G13 BASE											
3000006	G10T8	330.0	12.99	25.5	1.00	9.5	0.230	46.0	253.7	2.7	8000	G13
3000007	G15T8	436.0	17.16	25.5	1.00	15.0	0.305	55.0	253.7	4.9	8000	G13
3000008	G25T8	436.0	17.16	25.5	1.00	25.0	0.600	46.0	253.7	6.9	8000	G13
3000009	G30T8	893.0	35.16	25.5	1.00	30.5	0.355	99.0	253.7	13.9	8000	G13
3000316	G55T8	893.0	35.16	25.5	1.00	55.0	0.770	83.0	253.7	18.0	8000	G13
	T10 - G13 BASE											
3000314	G20T10	588.5	23.17	32.5	1.28	19.0	0.360	58.0	253.7	7.5	8000	G13
3000315	G40T10	1198.0	47.17	32.5	1.28	39.5	0.420	106.0	253.7	19.8	8000	G13
	T5 - SINGLE PIN											
3000345	G14T5L (GPH287)	287.0	11.30	15.5	0.61	14.0	0.400	40.0	253.7	3.0	8000	Single Pin
3000338	G10T5L	357.0	14.06	15.5	0.61	16.0	0.425	55.0	253.7	5.3	9000	Single Pin
3000347	G22T5L (GPH436)	436.0	17.16	15.5	0.61	22.0	0.420	62.0	253.7	7.0	8000	Single Pin
3000312	G36T5L	846.0	33.31	15.5	0.61	39.0	0.425	115.0	253.7	13.0	9000	Single Pin
3000313	G64T5L	1553.6	61.17	15.5	0.61	65.0	0.425	250.0	253.7	27.0	9000	Single Pin
	T5 - 4-PIN BASE											
3000348	G14T5L/4P (GPH287)	287.0	11.30	15.5	0.61	14.0	0.400	40.0	253.7	3.0	8000	4-Pin
3000355	G10T5L/4P	357.0	14.06	15.5	0.61	16.0	0.425	55.0	253.7	5.3	9000	4-Pin
3000350	G22T5L/4P (GPH436)	436.0	17.16	15.5	0.61	22.0	0.420	62.0	253.7	7.0	8000	4-Pin
3000343	G36T5L/4P	846.0	33.31	15.5	0.61	39.0	0.425	115.0	253.7	13.0	9000	4-Pin
3000351	G64T5L/4P	1553.6	61.17	15.5	0.61	65.0	0.425	250.0	253.7	27.0	9000	4-Pin

Average lamp life and output measurements taken under laboratory conditions in open air.
Lamps are cycled for 2hrs 45minutes on / 15minutes off when testing life and output.
Lamp data is for reference only. Actual lamp performance depends on system design and operating conditions.

Warning: Protect your eyes and skin when operating Germicidal lamps.
Equipment should be designed to completely screen or filter UV-C radiation.

(Hg) - LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org or 1-800-895-8842

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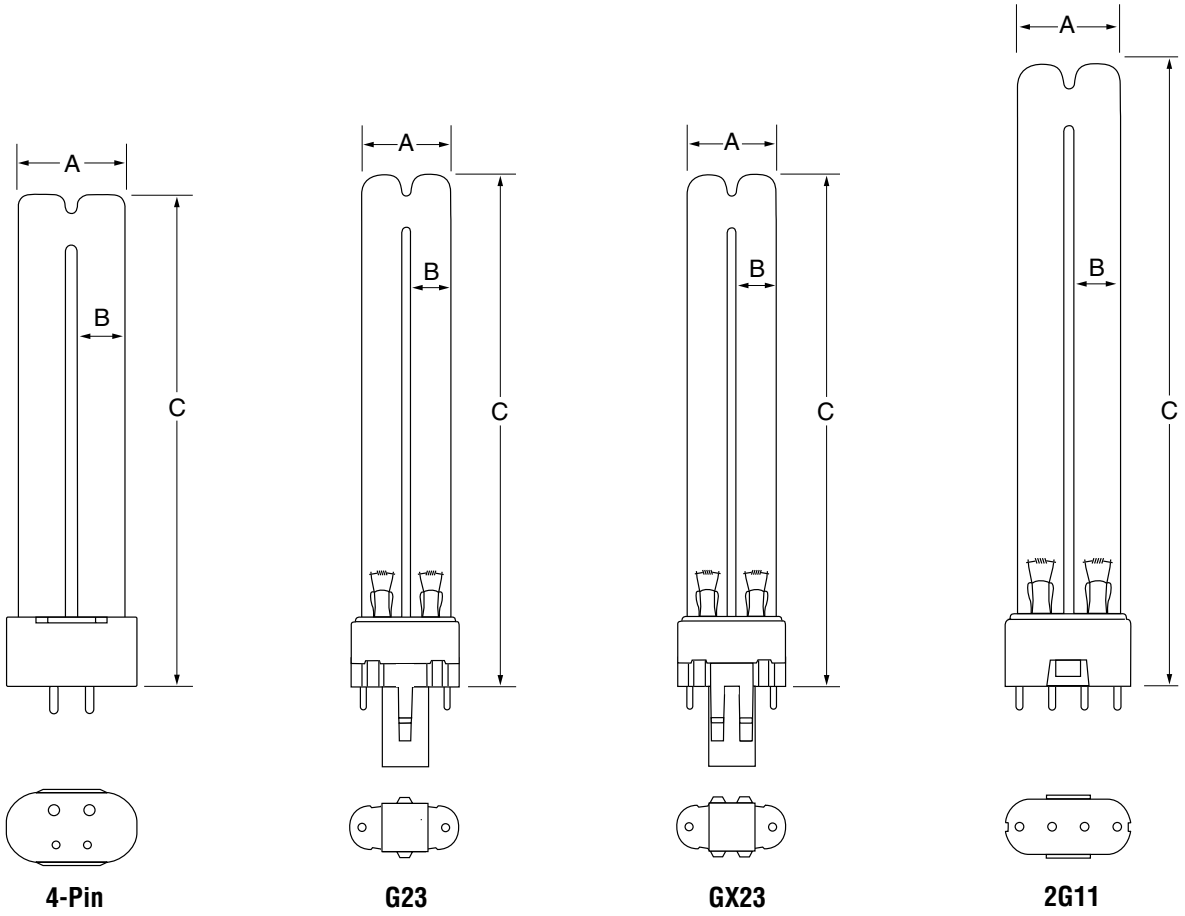
CHARACTERISTICS & SPECIFICATIONS



4-Pin **G23** **GX23** **2G11**

USHIO Ordering Code	USHIO Lamp Code	Diameter (A) (mm)	(in)	Dimensions Diameter (B) (mm)	(in)	Length (C) (mm)	(in)	Watts (W)	Current (A)	Volts (V)	Spectral Peak (nm)	UV Output (W)	Avg Life (h)	Base
	U-SHAPED 4-PIN BASE													
3000336	GUL6	35.0	1.38	16.5	0.65	112.0	4.41	6.0	0.160	42	253.7	1.6	3000	4-Pin
	G23 & GX23 BASE													
3000321	GPX5	28.0	1.10	13.0	0.51	85.0	3.35	5.5	0.180	35	253.7	1.2	8000	G23
3000328	GPX7	28.0	1.10	13.0	0.51	115.0	4.53	7.0	0.180	45	253.7	1.9	8000	G23
3000304	GPX9	28.0	1.10	13.0	0.51	145.0	5.71	9.0	0.180	59	253.7	2.4	8000	G23
3000322	GPX11	28.0	1.10	13.0	0.51	215.0	8.46	11.8	0.155	91	253.7	3.0	8000	G23
3000323	GPX13	28.0	1.10	13.0	0.51	170.0	6.69	13.4	0.285	59	253.7	3.6	8000	GX23
	2G11 BASE													
3000324	GPL18K	40.0	1.57	20.0	0.79	225.0	8.86	18.0	0.375	58	253.7	5.5	8000	2G11
3000339	GPL36K	40.0	1.57	20.0	0.79	415.0	16.33	36.0	0.435	106	253.7	12.0	8000	2G11

Average lamp life and output measurements taken under laboratory conditions in open air.
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Form No. S-GRM/R-0806