

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).

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.

These lamps are components which may be used by customers to manufacture a variety of finished products.

APPLICATIONS

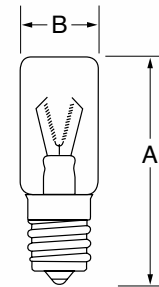
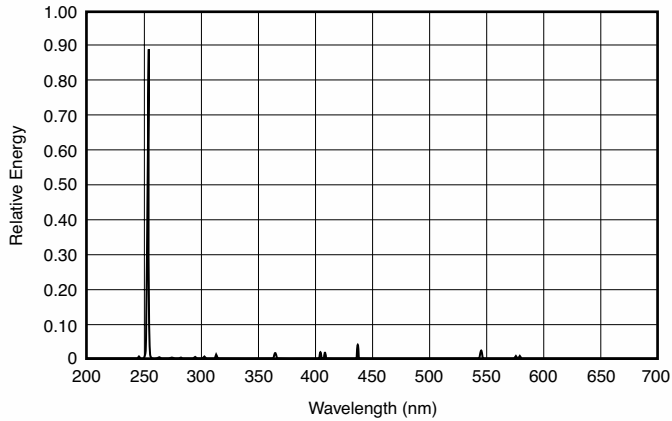
- Drinking Water
- Wastewater
- Air Conditioning System
- Pharmaceutical Processing
- Food Processing Facility
- Packaging Materials
- Laboratory/Research
- Photochemistry
- Clean Room
- Other Sterilization & Disinfection needs

FEATURES & BENEFITS

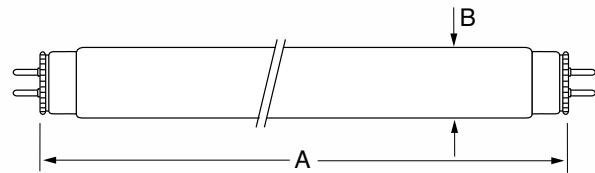
- Low Mercury dose to meet environmental demands
- Specially formulated coating achieves high output over long life hours
- High purity lamp construction to stabilize UV output and minimizes depreciation (averages 20-25% depreciation at end of life)
- Large production capacity providing lamps with consistent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

Distributed by:

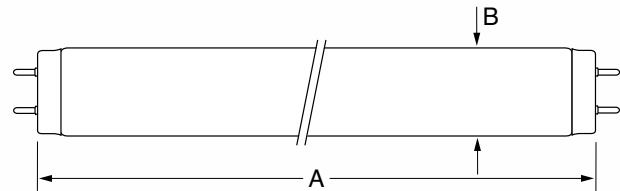
SPECTRAL DISTRIBUTION GERMICIDAL LAMP 253.7nm



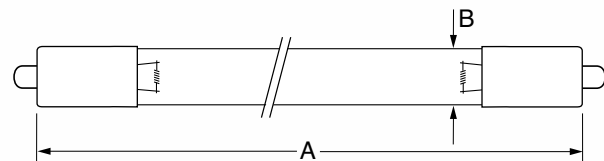
E17 Base



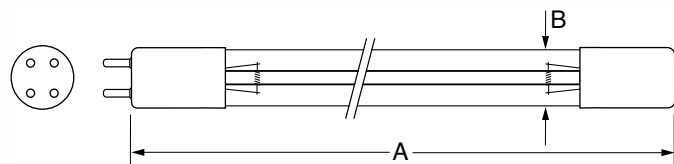
T5 Miniature Bi Pin G5 Base



T8 & T10 Medium Bi Pin G13 Base

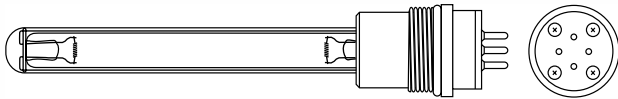


T5 Single Pin Base



T5 4-Pin Base

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





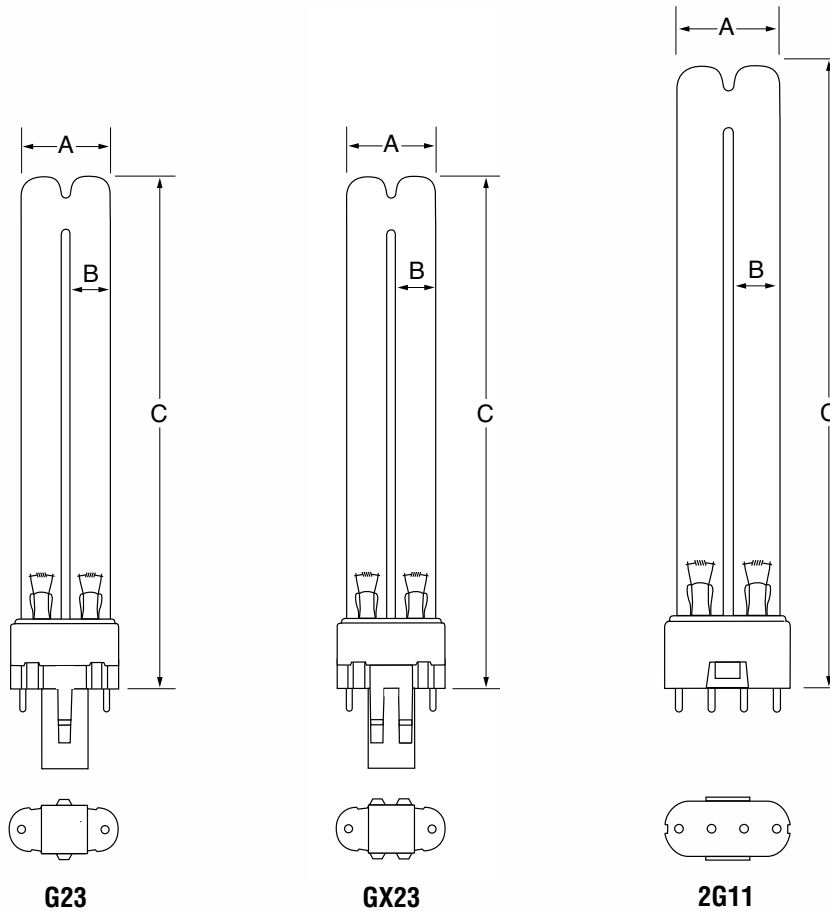
CHARACTERISTICS & SPECIFICATIONS

| USHIO Ordering Code | USHIO Lamp Description | Dimensions | | | | Watts (W) | Current (A) | Volts (V) | Spectral Peak (nm) | UV Output (W) | Avg Life (h) | Base |
|--|---------------------------|------------|-------|--------------|------|--------------|----------------|--------------|--------------------------|---------------------|--------------------|------------|
| | | Length (A) | | Diameter (B) | | | | | | | | |
| | | (mm) | (in) | (mm) | (in) | | | | | | | |
| MINI BOWL INTERMEDIATE SCREW 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 | 253.7 | 0.8 | 6000 | G5 |
| 3000015 | G6T5 | 210.5 | 8.29 | 15.5 | 0.61 | 6.0 | 0.160 | 42 | 253.7 | 1.8 | 8000 | G5 |
| 3000016 | G8T5 | 287.0 | 11.30 | 15.5 | 0.61 | 7.2 | 0.145 | 57 | 253.7 | 2.2 | 8000 | G5 |
| 3000311 | G16T5 | 287.0 | 11.30 | 15.5 | 0.61 | 16.0 | 0.350 | 50 | 253.7 | 3.2 | 8000 | G5 |
| T8 - MEDIUM BI PIN G13 BASE | | | | | | | | | | | | |
| 3000006 | G10T8 | 330.0 | 12.99 | 25.5 | 1.00 | 9.5 | 0.230 | 46 | 253.7 | 2.7 | 8000 | G13 |
| 3000007 | G15T8 | 436.0 | 17.16 | 25.5 | 1.00 | 15.0 | 0.305 | 55 | 253.7 | 4.9 | 8000 | G13 |
| 3000008 | G25T8 | 436.0 | 17.16 | 25.5 | 1.00 | 25.0 | 0.600 | 46 | 253.7 | 6.9 | 8000 | G13 |
| 3000009 | G30T8 | 893.0 | 35.16 | 25.5 | 1.00 | 30.5 | 0.355 | 99 | 253.7 | 13.9 | 8000 | G13 |
| T10 - MEDIUM BI PIN G13 BASE | | | | | | | | | | | | |
| 3000314 | G20T10 | 588.5 | 23.17 | 32.5 | 1.28 | 19.0 | 0.360 | 58 | 253.7 | 7.5 | 8000 | G13 |
| 3000315 | G40T10 | 1198.0 | 47.17 | 32.5 | 1.28 | 39.5 | 0.420 | 106 | 253.7 | 19.8 | 8000 | G13 |
| T5 - SINGLE PIN | | | | | | | | | | | | |
| 3000338 | G10T5L | 357.0 | 14.06 | 15.5 | 0.61 | 16.0 | 0.425 | 55 | 253.7 | 5.3 | 9000 | Single Pin |
| 3000312 | G36T5L | 846.0 | 33.31 | 15.5 | 0.61 | 39.0 | 0.425 | 115 | 253.7 | 13.0 | 9000 | Single Pin |
| 3000313 | G64T5L | 1553.6 | 61.17 | 15.5 | 0.61 | 65.0 | 0.425 | 250 | 253.7 | 27.0 | 9000 | Single Pin |
| T5 - SINGLE PIN - QUARTZ | | | | | | | | | | | | |
| 3000010 | G36T5L | 846.0 | 33.31 | 15.0 | 0.59 | 39.0 | 0.425 | 120 | 253.7 | - | 9000 | Single Pin |
| 3000014 | G64T5L | 1572.0 | 61.89 | 15.0 | 0.59 | 65.0 | 0.425 | 220 | 253.7 | - | 7500 | Single Pin |
| T5 - SINGLE PIN - OZONE | | | | | | | | | | | | |
| 3000005 | G10T5VH | 375.0 | 14.76 | 15.0 | 0.59 | 16.0 | 0.425 | 55 | 253.7 | - | 7500 | Single Pin |
| 3000011 | G36T5VH | 860.0 | 33.86 | 15.0 | 0.59 | 39.0 | 0.425 | 120 | 253.7 | - | 7500 | Single Pin |
| 3000242 | G64T5VH | 1554.0 | 61.18 | 15.0 | 0.59 | 65.0 | 0.425 | 220 | 253.7 | 25.0 | 9000 | Single Pin |
| T5 - 4-PIN BASE | | | | | | | | | | | | |
| 3000348 | G14T5L/4P (GPH287) | 287.0 | 11.30 | 15.5 | 0.61 | 14.0 | 0.400 | 40 | 253.7 | 3.0 | 8000 | 4-Pin |
| 3000350 | G22T5L/4P (GPH436) | 436.0 | 17.16 | 15.5 | 0.61 | 22.0 | 0.420 | 62 | 253.7 | 7.0 | 8000 | 4-Pin |
| 3000343 | G36T5L/4P | 846.0 | 33.31 | 15.5 | 0.61 | 39.0 | 0.425 | 115 | 253.7 | 13.0 | 9000 | 4-Pin |
| T5 - 4-PIN BASE - QUARTZ | | | | | | | | | | | | |
| 3000425 | G10T5L/4P | 357.0 | 14.06 | 15.0 | 0.59 | 16.0 | 0.425 | 55 | 253.7 | 5.7 | 9000 | 4-Pin |
| 3000423 | G64T5L/4P | 1554.0 | 61.18 | 15.0 | 0.59 | 65.0 | 0.425 | 220 | 253.7 | 25.0 | 9000 | 4-Pin |
| T5 - 4-PIN BASE - OZONE | | | | | | | | | | | | |
| 3000354 | G10T5VH/4P | 357.0 | 14.06 | 15.0 | 0.59 | 16.0 | 0.425 | 55 | 253.7 | 5.7 | 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.

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



| USHIO Ordering Code | USHIO Lamp Description | Dimensions | | | | | | Watts (W) | Current (A) | Volts (V) | Spectral Peak (nm) | UV Output (W) | Avg Life (h) | Base |
|----------------------------|------------------------------|--------------|------|--------------|------|------------|-------|--------------|----------------|--------------|--------------------------|---------------------|--------------------|------|
| | | Diameter (A) | | Diameter (B) | | Length (C) | | | | | | | | |
| 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 |
| 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. 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.

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Scan with a smartphone to view this product online.

Form No. S-GRM/R-0914
Specifications may be subject to change without prior notice. Refer to www.ushio.com for the most current product specifications.