

**Compact (16 mm diameter, 12 mm seated length),
solar blind (spectral response: 185 to 320 nm)**

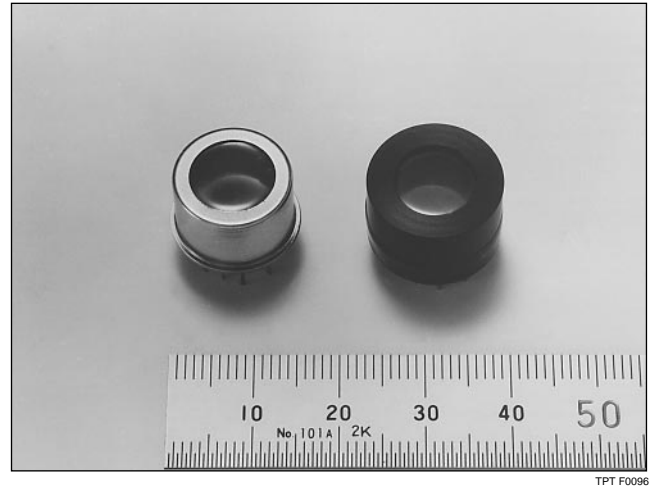
The R6800U-01 is a subminiature phototube encapsulated in a TO-8 metal package. The electrode structure is designed to operate at a low voltage, allowing easy handling. Its excellent solar-blind spectral response ensures efficient UV detection without using an optical visible cut filter.

FEATURES

- Compact
- Solar Blind
- Low Voltage Operation

APPLICATIONS

- Environmental Measurement
- Security
- UV Power Meter
- Monitor for Water Sterilization lamp



GENERAL

Parameter		Description/Value	Unit
Spectral Response		185 to 320	nm
Wavelength of Maximum Response		240	nm
Photocathode	Material	Cs-Te	—
	Minimum Effective Area	φ8	mm
Window Material		UV glass	—
Insulation Cover Material		Polyoxymethylene	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter	Value	Unit
Anode Supply Voltage	100	Vdc
Peak Cathode Current	1.2	μA
Average Cathode Current	0.4	μA
Ambient Temperature	-80 to +50	°C

CHARACTERISTICS (at +25°C)

Parameter	Value	Unit
Radiant Sensitivity (at 254 nm)	20	mA/W Typ.
Dark Current [Ⓐ]	1	pA Max.
Recommended Operating Voltage	15	Vdc

NOTE: [Ⓐ] Ebb = 15 V

METAL PACKAGE SOLAR BLIND PHOTOTUBE R6800U-01

Figure 1: Typical Spectral Response

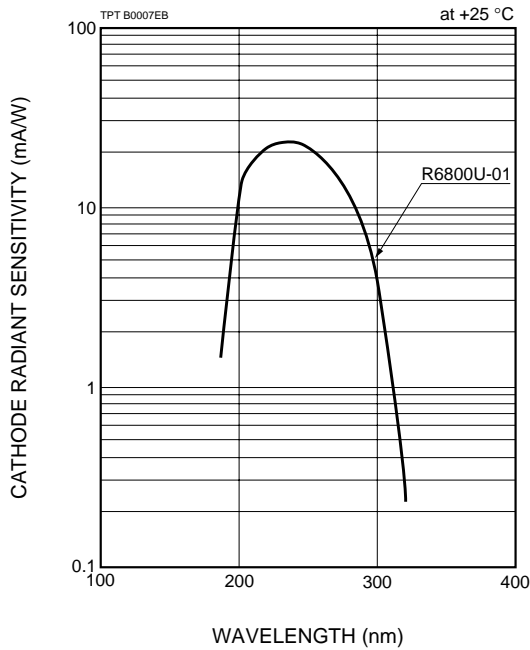


Figure 2: Saturation Characteristics

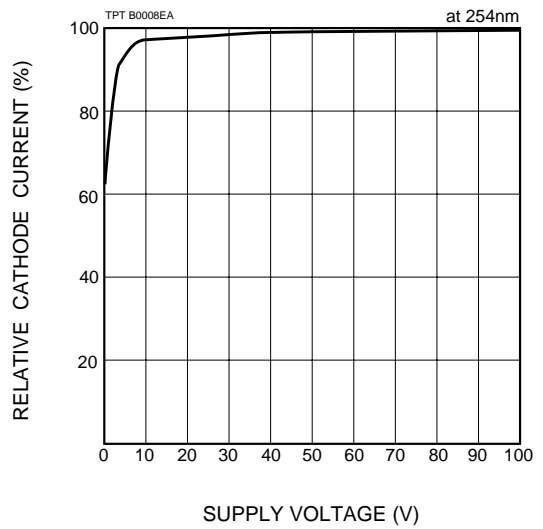
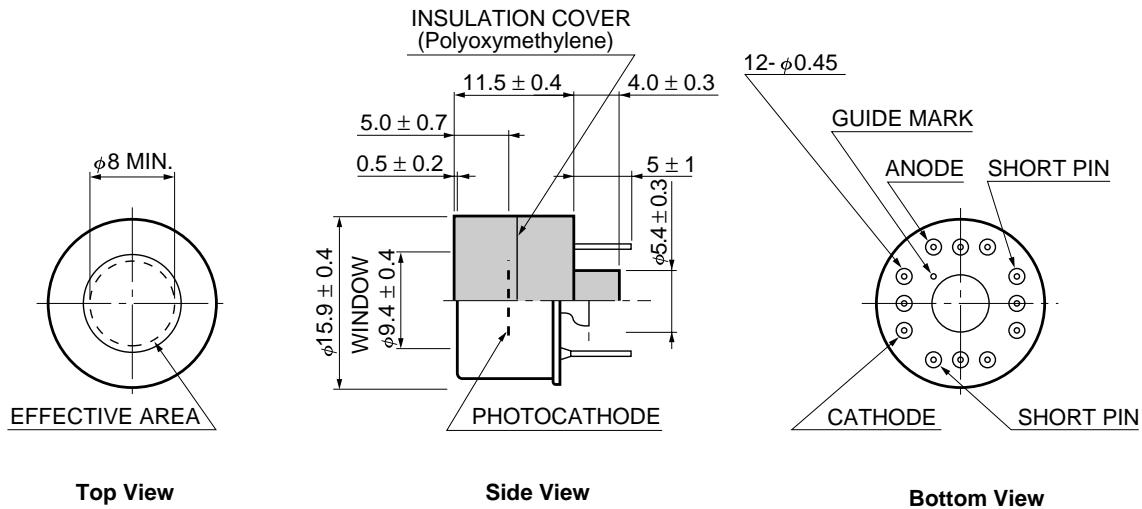


Figure 3: Dimensional Outline (Unit: mm)



TPT A0022EB

NOTE: Don't use pins excepting ANODE and CATHODE pins.

* PATENT PENDING: JAPAN 2

HAMAMATSU

HAMAMATSU PHOTONICS K.K., Electron Tube Center

314-5, Shimokanzo, Toyooka-village, Iwata-gun, Shizuoka-ken, 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, P. O. Box 6910, Bridgewater, N.J. 08807-0910, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218

Germany: Hamamatsu Photonics Deutschland GmbH: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-2658

France: Hamamatsu Photonics France S.A.R.L.: 8, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 00, Fax: (33)1 69 53 71 10

United Kingdom: Hamamatsu Photonics UK Limited: Lough Point, 2 Gladbeck Way, Windmill Hill, Enfield, Middlesex EN2 7JA, United Kingdom, Telephone: (44)181-367-3560, Fax: (44)181-367-6384

North Europe: Hamamatsu Photonics Norden AB: Färögatan 7, S-164-40 Kista Sweden, Telephone: (46)8-703-29-50, Fax: (46)8-750-58-95

Italy: Hamamatsu Photonics Italia: S.R.L.: Strada della Moia, 1/E, 20020 Arese, (Milano), Italy, Telephone: (39)02-935 81 733, Fax: (39)02-935 81 741

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