

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

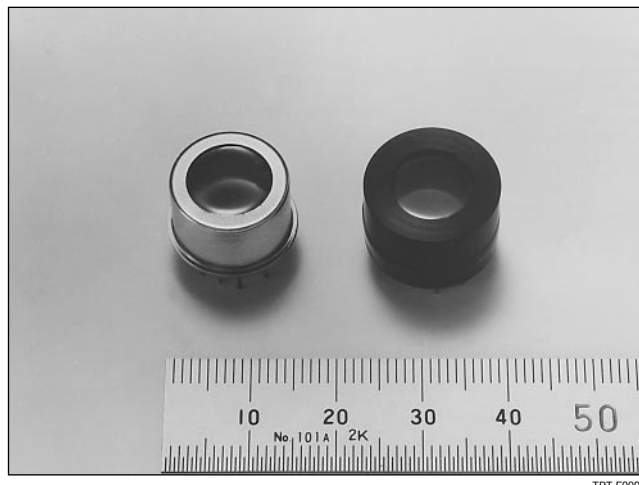
The R6800U-01 is a subminiature phototube encapsulated in a TO-8 metal package. The electrode structure is designed to operate at a low voltage, allowing easy handling. Its excellent solar-blind spectral response ensures efficient UV detection without using an optical visible cut filter.

FEATURES

- Compact
- Solar Blind
- Low Voltage Operation

APPLICATIONS

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



TPT F0096

GENERAL

Parameter		Description/Value	Unit
Spectral Response		185 to 320	nm
Wavelength of Maximum Response		240	nm
Photocathode	Material	Cs-Te	—
	Minimum Effective Area	$\phi 8$	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	$^{\circ}\text{C}$

CHARACTERISTICS (at +25 $^{\circ}\text{C}$)

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

NOTE: ^① Ebb = 15 V

METAL PACKAGE SOLAR BLIND PHOTOTUBE R6800U-01

Figure 1: Typical Spectral Response

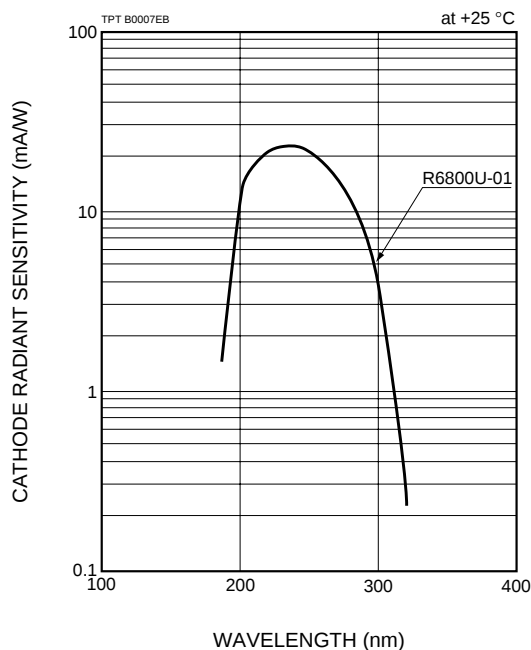


Figure 2: Saturation Characteristics

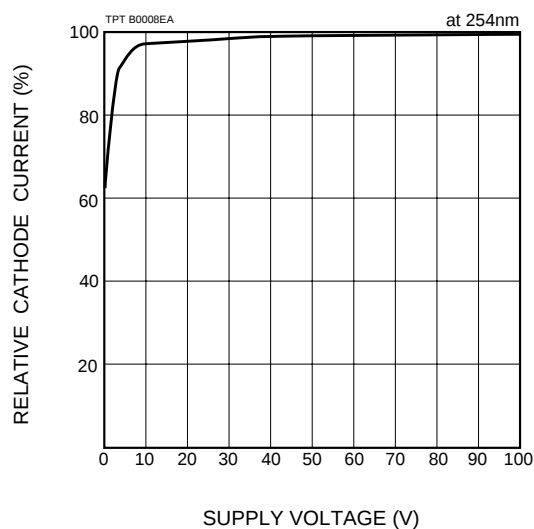
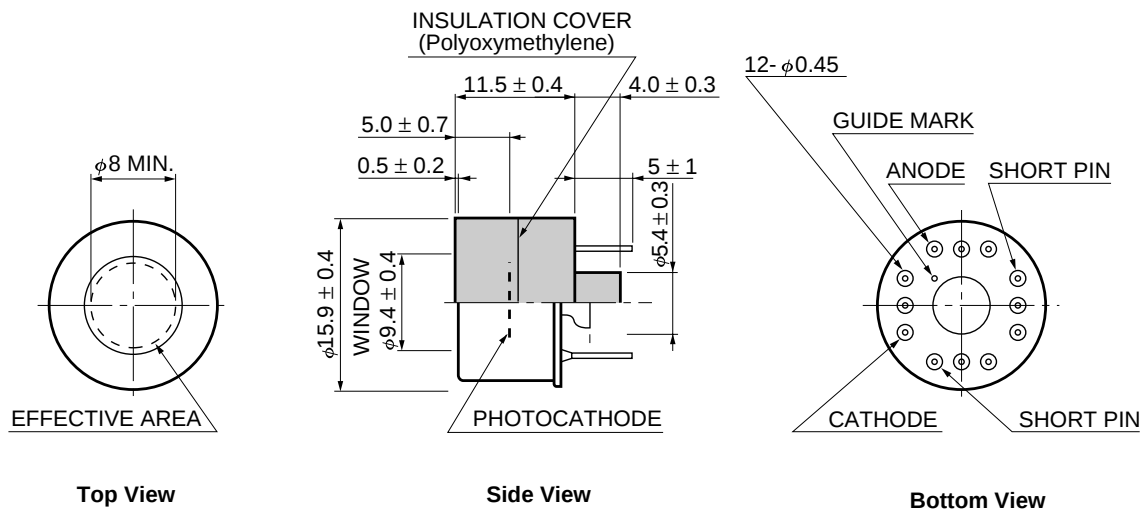


Figure 3: Dimensional Outline (Unit: mm)



TPT A0022EB

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

* PATENT PENDING: JAPAN 2

HAMAMATSU

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