

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

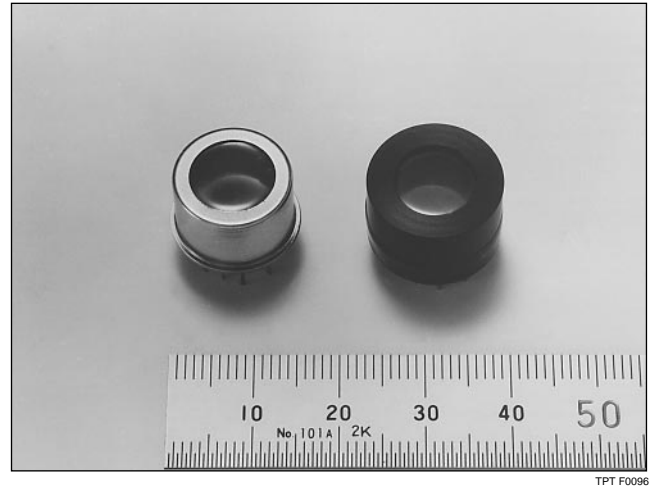
The R6800U-01 is a subminiature phototube encapsulated in a TO-8 metal package. The electrode structure is designed to operate at a low voltage, allowing easy handling. Its excellent solar-blind spectral response ensures efficient UV detection without using an optical visible cut filter.

### 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 <sup>Ⓐ</sup>	1	pA Max.
Recommended Operating Voltage	15	Vdc

NOTE: <sup>Ⓐ</sup> Ebb = 15 V

# METAL PACKAGE SOLAR BLIND PHOTOTUBE R6800U-01

Figure 1: Typical Spectral Response

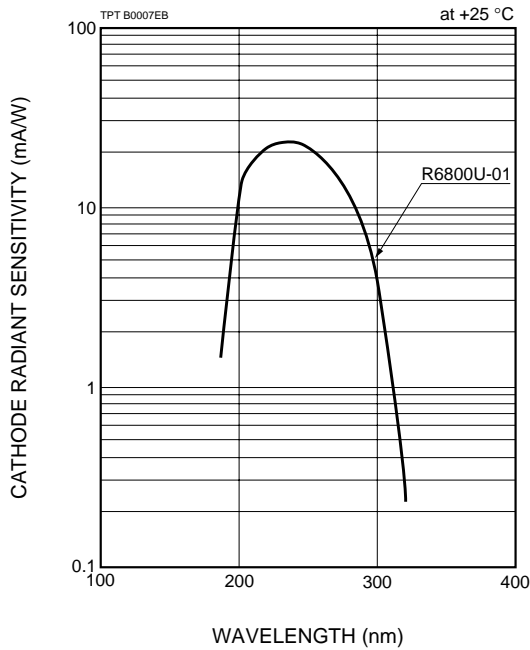


Figure 2: Saturation Characteristics

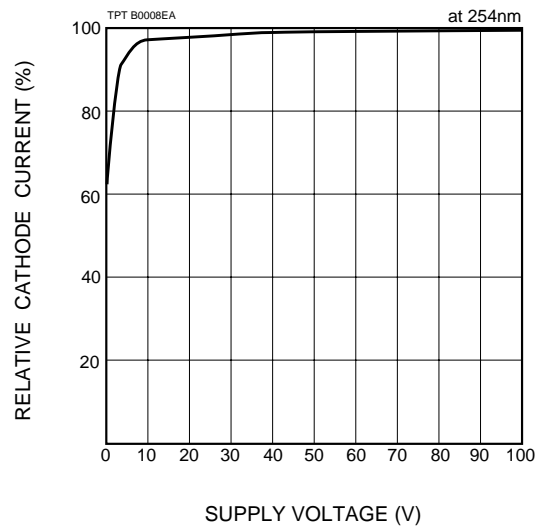
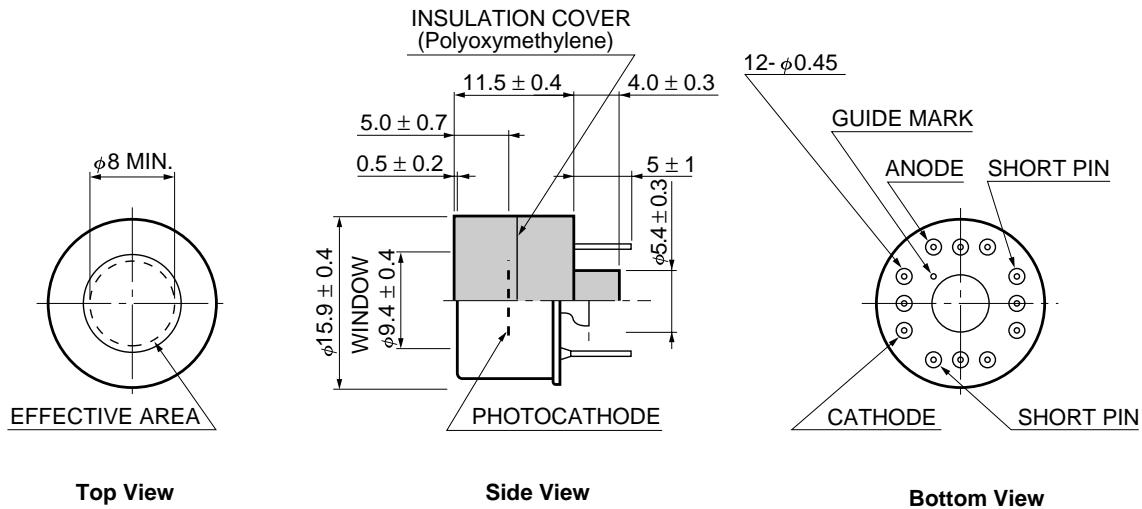


Figure 3: Dimensional Outline (Unit: mm)



TPT A0022EB

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

\* PATENT PENDING: JAPAN 2

## HAMAMATSU

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TPT 1006E02  
JAN. 1999 SI  
Printed in Japan (500)