

HAMAMATSU

PRELIMINARY DATA
AUG. 1999

METAL PACKAGE SOLAR BLIND PHOTOTUBE R6800U-26

**Compact (16 mm diameter, 12 mm seated length),
solar blind (spectral response: 115 to 220 nm)**

The R6800U-26 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
- Good Linearity with Respect to High Power Light

APPLICATIONS

- Laser Power Meter
 - Ar₂: 126nm
 - F₂ : 157nm
- Excimer Lamp Monitor
- UV Power Meter

GENERAL

Parameter		Description/Value	Unit
Spectral Response		115 to 220	nm
Wavelength of Maximum Response		160	nm
Photocathode	Material	Diamond (Opaque)	—
	Minimum Effective Area	φ6	mm
Window Material		MgF ₂	—

MAXIMUM RATINGS (Absolute Maximum Values)

Parameter	Value	Unit
Anode Supply Voltage	500	Vdc
Peak Cathode Current	12	μA
Average Cathode Current	4	μA
Ambient Temperature	-80 to +50	°C

CHARACTERISTICS (at +25°C)

Parameter	Value	Unit
Radiant Sensitivity (at 160 nm)	12	mA/W Typ.
Dark Current ^①	1	pA Max.
Recommended Operating Voltage	15	Vdc

NOTE: ① Ebb = 15 V



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Figure 1: Typical Spectral Response

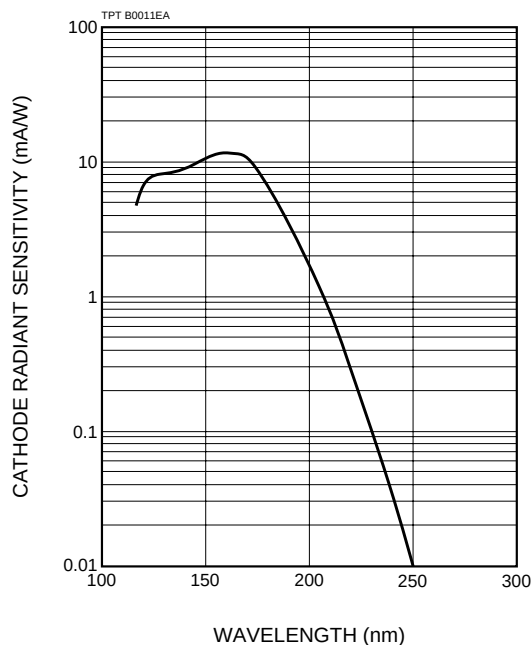


Figure 2: Saturation Characteristics

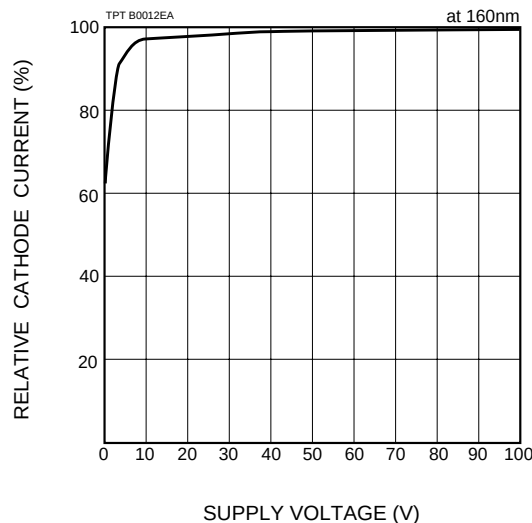
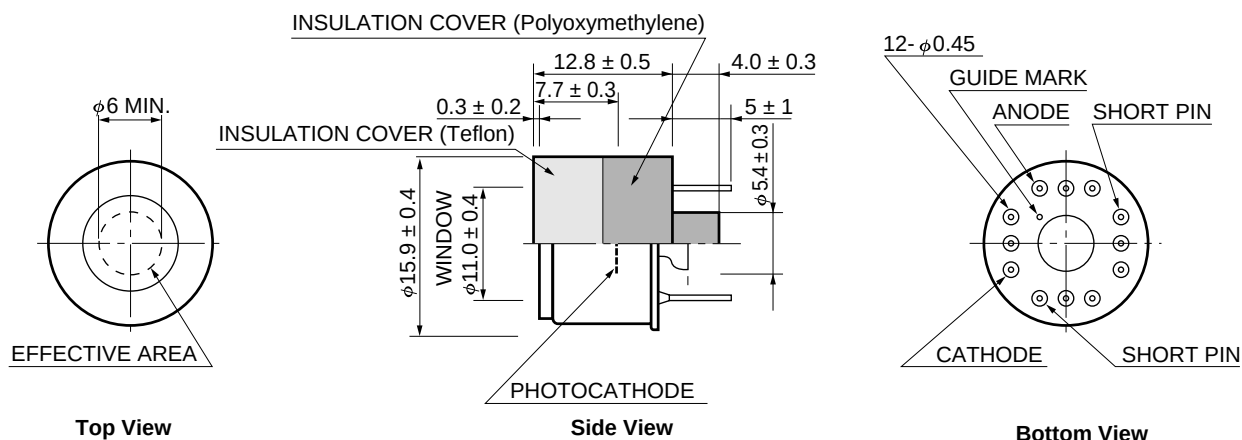


Figure 3: Dimensional Outline (Unit: mm)



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

HAMAMATSU

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