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**
  - **Ar_2: 126nm**
  - **F_2 : 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	pA Max.
Recommended Operating Voltage	15	Vdc

NOTE: ⓐ Ebb = 15 V

Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office.
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Figure 1: Typical Spectral Response

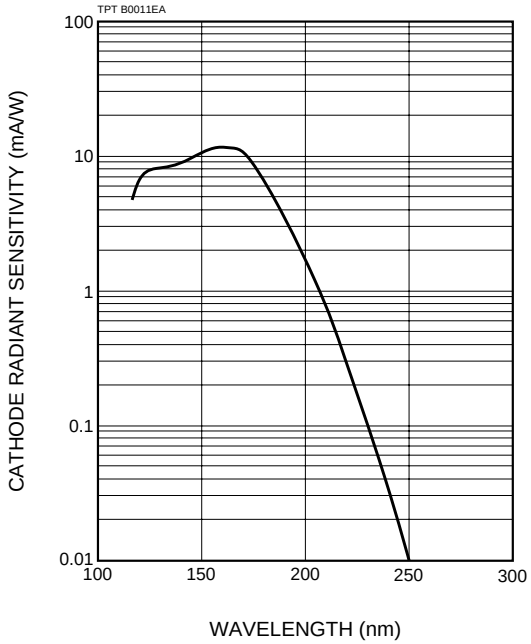


Figure 2: Saturation Characteristics

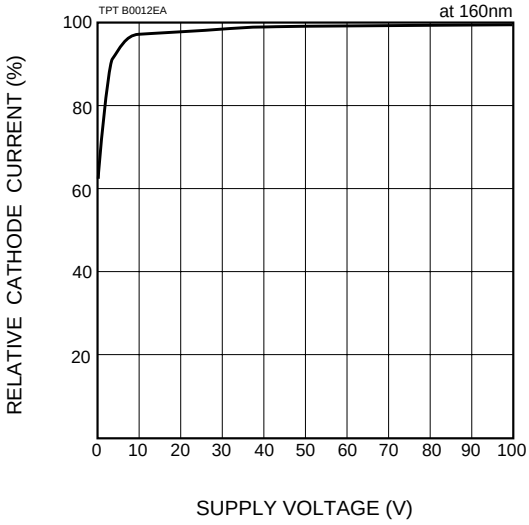
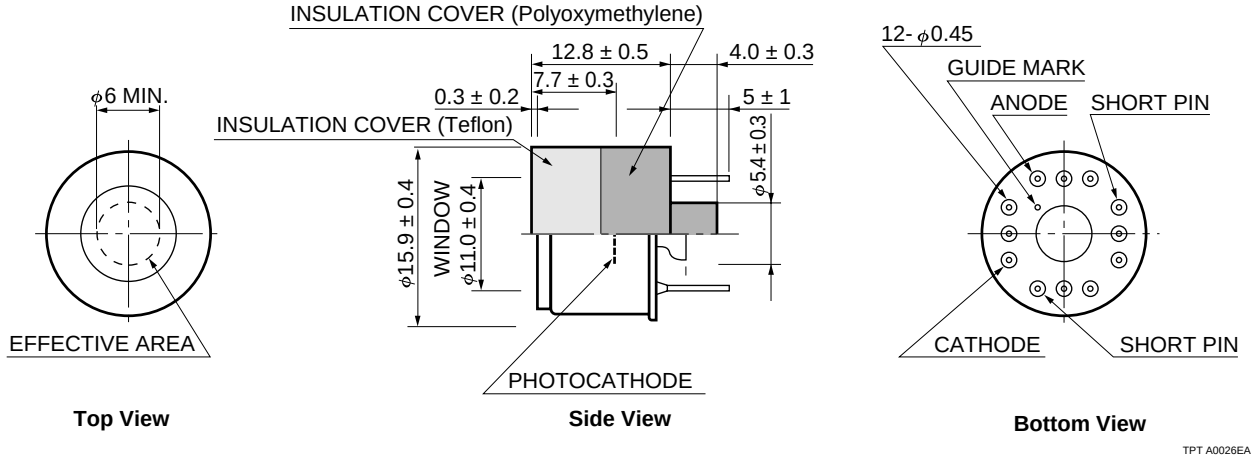


Figure 3: Dimensional Outline (Unit: mm)



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

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