

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 | pA Max. |
| Recommended Operating Voltage | 15 | Vdc |

NOTE: [Ⓐ] Ebb = 15 V

METAL PACKAGE SOLAR BLIND PHOTOTUBE R6800U-26

Figure 1: Typical Spectral Response

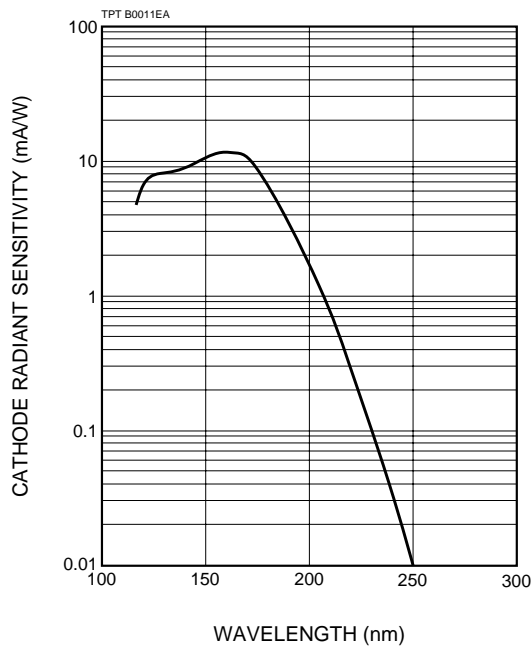


Figure 2: Saturation Characteristics

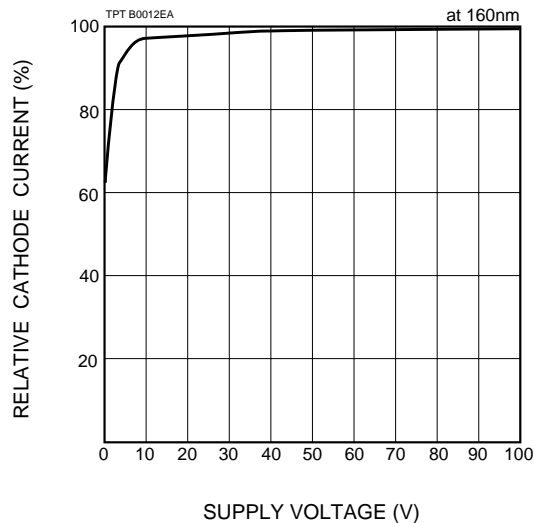
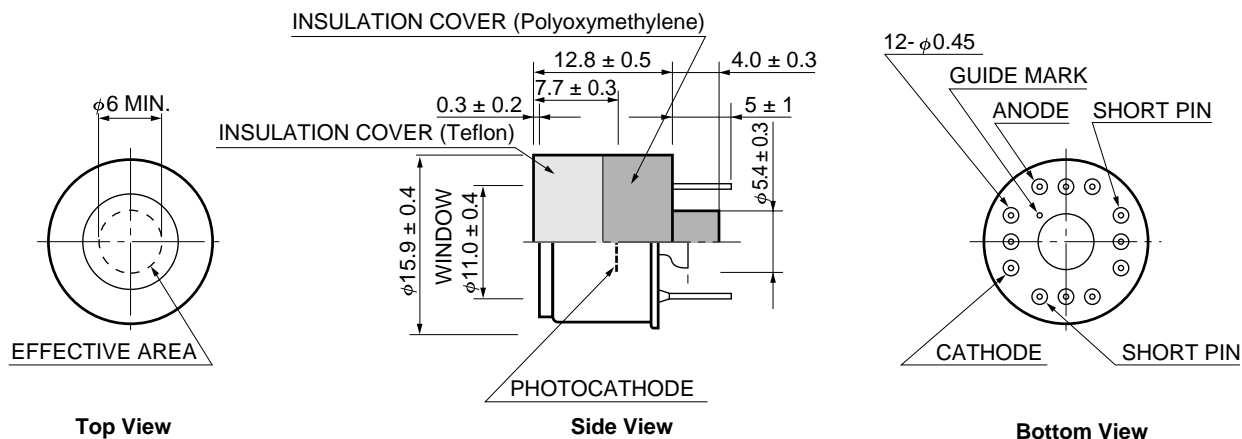


Figure 3: Dimensional Outline (Unit: mm)



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

HAMAMATSU

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