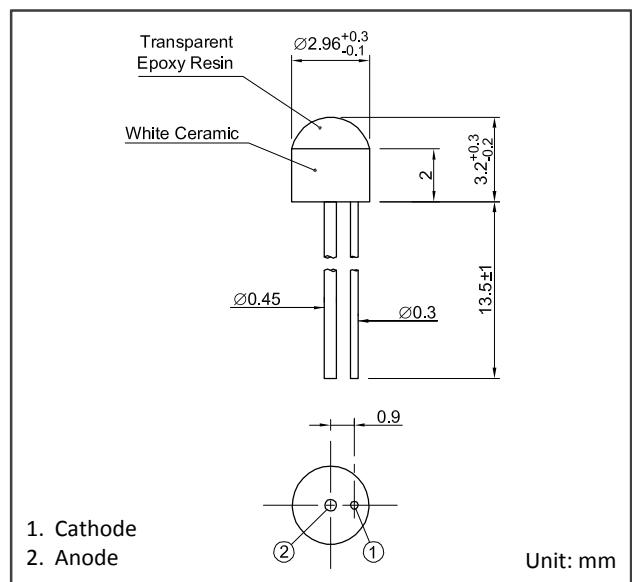


Features

- High power
- Small ceramic package
- Direct modulation

Applications

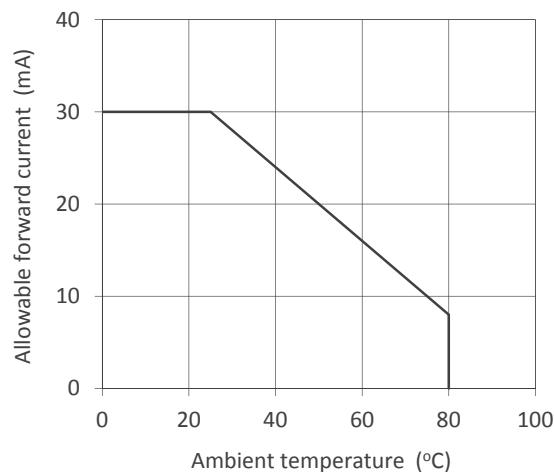
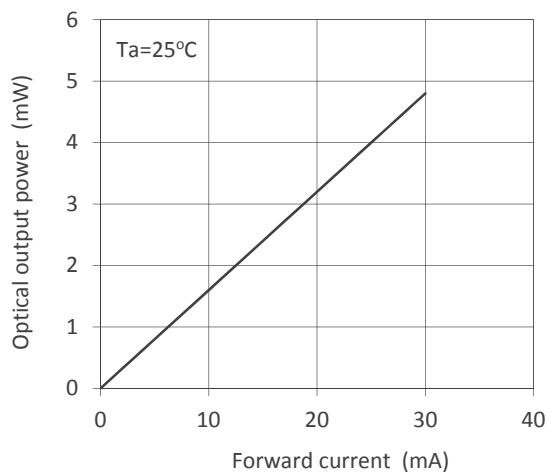
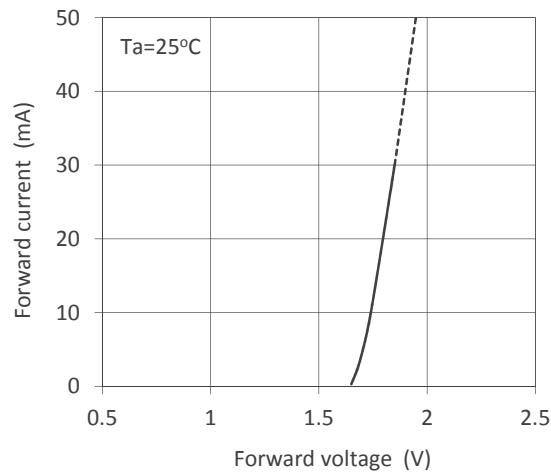
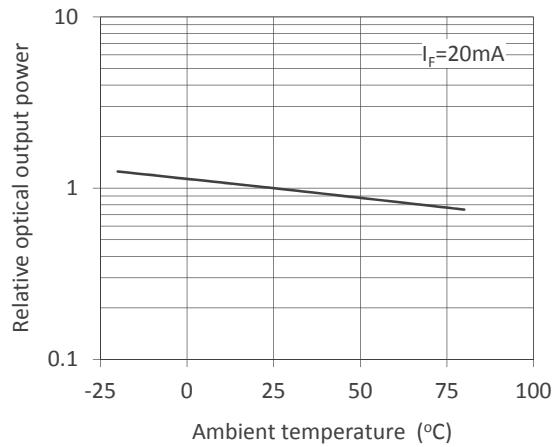
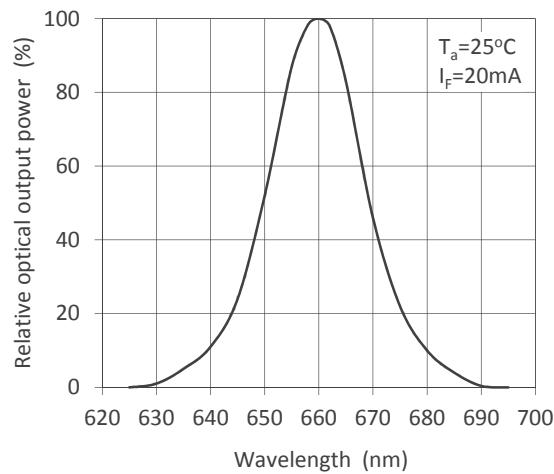
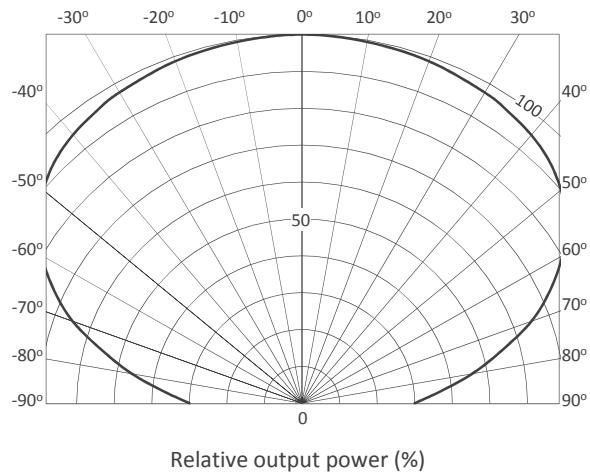
- Optical switches
- Optical encoders
- Optical instruments
- Automatic control apparatus

**Absolute Maximum Ratings**

| Parameter | Symbol | Value | Unit | Note |
|-----------------------|-----------|-------------|------|--------------------------------------|
| Forward current | I_F | 30 | mA | Ta=25°C |
| Peak forward current | I_{FP} | 0.5 | A | Pulse width=100μs Duty ratio=0.1% |
| Reverse voltage | V_R | 6 | V | |
| Power dissipation | P_D | 70 | mW | Ta=25°C |
| Operating temperature | T_{opr} | -20 to +80 | °C | Avoid dew condensation |
| Storage temperature | T_{stg} | -30 to +100 | °C | Avoid dew condensation |

Electrical and Optical Characteristics (Ta=25°C unless otherwise noted)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition |
|---------------------------|-----------------|------|------|------|------|-------------------|
| Forward voltage | V_F | - | 1.8 | 2.3 | V | $I_F=20\text{mA}$ |
| Reverse current | I_R | - | - | 10 | μA | $V_R=6V$ |
| Optical output power | P_O | - | 3.2 | - | mW | $I_F=20\text{mA}$ |
| Peak emission wavelength | λ_p | - | 660 | - | nm | $I_F=20\text{mA}$ |
| Spectral bandwidth at 50% | $\Delta\lambda$ | - | 20 | - | nm | $I_F=20\text{mA}$ |

Allowable Forward Current-Ambient Temperature**Optical Output Power - Forward Current****Forward Current - Forward Voltage****Relative Optical Output Power - Ambient Temperature****Spectral Distribution****Directivity**

- Specifications , characteristics, data, materials, structures specified in this datasheet are subject to change without notice. Please refer to the latest specification before use of the products.
- Products listed in this datasheet comply with the RoHS Directive (EU2002/95/EC).

Opto-technologies for the Future



KYOSEMI CORPORATION

<http://www.kyosemi.co.jp/>

Headquarters : 949-2 Ebisicho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Tokyo Sales Office: 24th Sky Bldg.2F, 1-34-3 Shinjuku Shinjuku-ku, Tokyo 160-0022 Japan

TEL: +81-3-5312-5360

Kansai Sales Office: 949-2 Ebisicho Fushimi-ku, Kyoto 612-8201 Japan

TEL: +81-75-605-7311

Kyosemi Opto America Corp: 4655 Old Ironsides Suite 230 Santa Clara, California 95054 USA

TEL: +1-408-492-9361

Eniwa Operation: 385-31 Toiso Eniwa-shi, Hokkaido 061-1405 Japan

TEL: +81-123-34-3111

Kamisunagawa Operation: 70-1 Kamisunagawa Kamisunagawa-cho Sorachi-gun, Hokkaido 073-0200 Japan

TEL: +81-125-62-3611