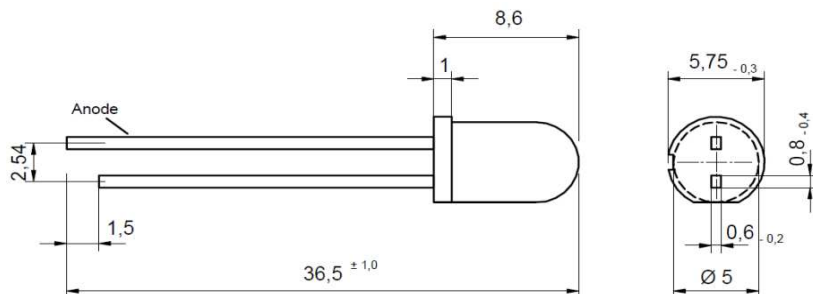


Peak Emission Wavelength: 1300nm



**Description**

- Standard 5mm plastic lens package housed without standoff leads
- Type: MQW
- High power
- High speed infrared

**Application**

- Optical communication
- Safety equipment
- Automation

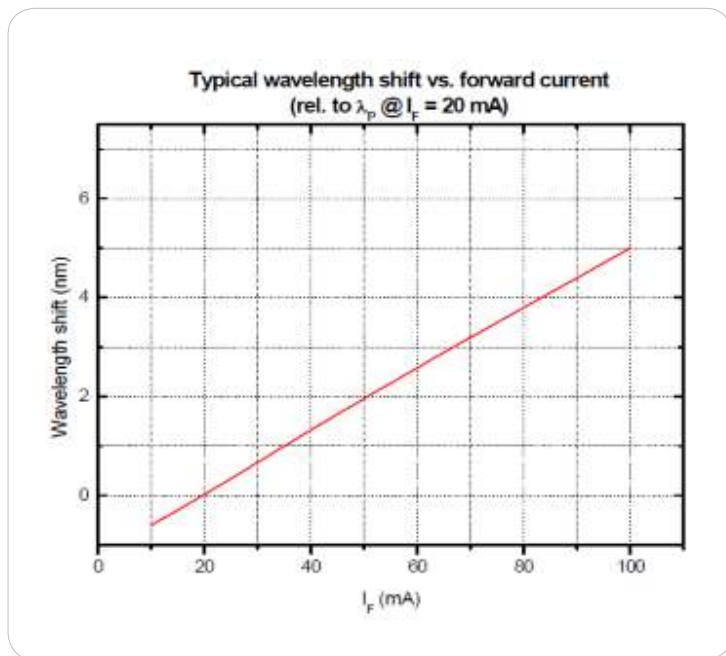
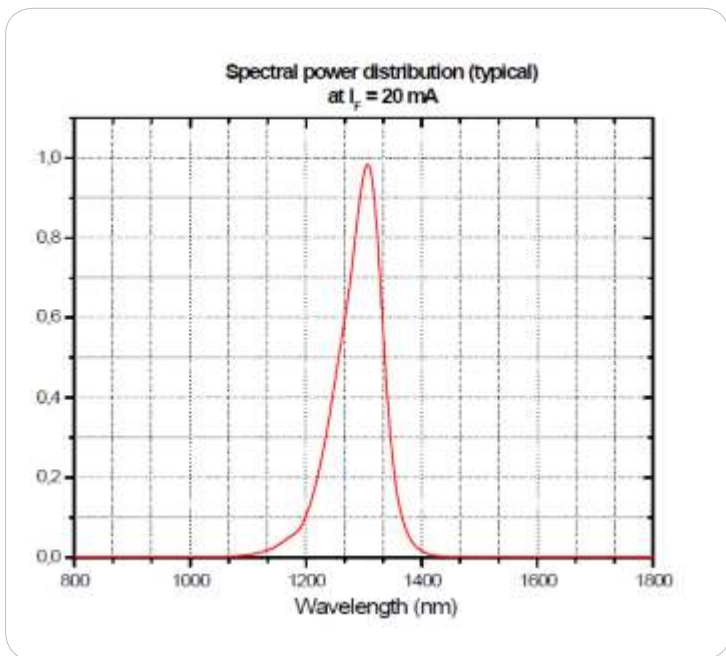
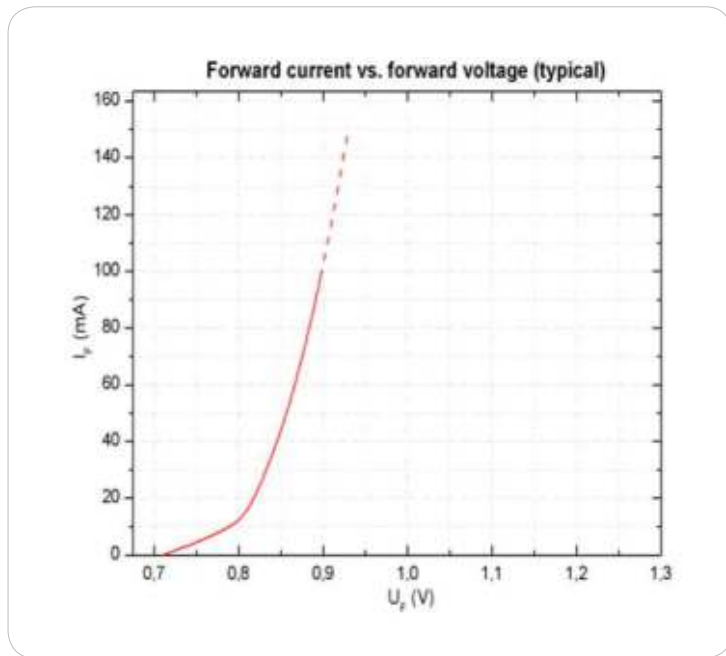
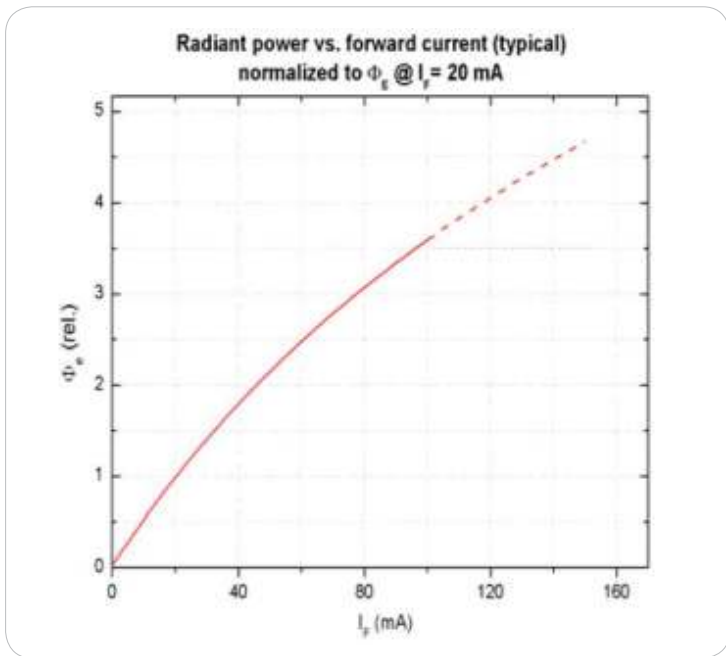
Absolute Maximum Ratings (Ta=25°C)

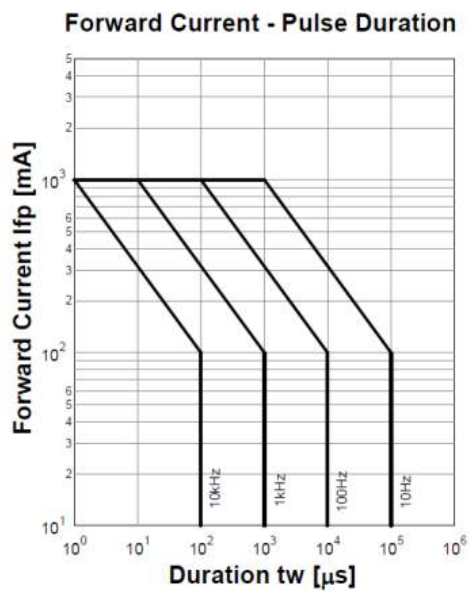


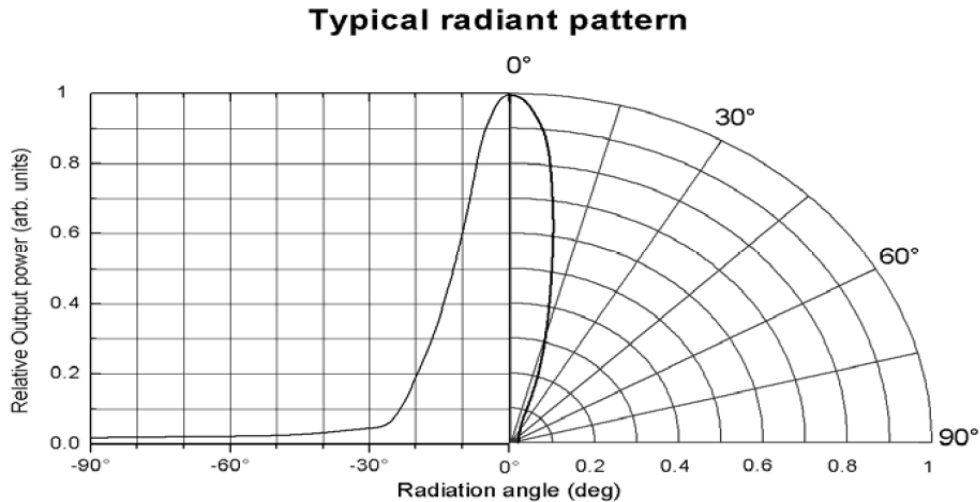
| ITEMS                       | TEST CONDITIONS       | SYMBOL | RATINGS     | UNIT |
|-----------------------------|-----------------------|--------|-------------|------|
| Forward DC Current          |                       | If     | 100         | mA   |
| Peak Forward Current        | (tp ≤ 50us, tp/T=1/2) | Ifp    | 200         | mA   |
| Power Dissipation           |                       | Pd     | 150         | mW   |
| Operating Temperature Range |                       | Top    | -20 to +80  | °C   |
| Storage Temperature Range   |                       | Tstg   | -55 to +100 | °C   |
| Lead Soldering Temperature  | t<5s, 3mm from case   | Tslg   | 260         | °C   |

Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                     | SYMBOL | CONDITIONS | MIN  | TYP  | MAX  | UNIT  |
|---------------------------|--------|------------|------|------|------|-------|
| Forward Voltage           | Vf     | If=20mA    | --   | 0.85 | 1    | V     |
| Forward Voltage           | Vf     | If=100mA   | --   | 0.95 | --   | V     |
| Reverse Voltage           | Vr     | Ir=10uA    | 5    | --   | --   | V     |
| Radiant Power             | Φe     | If=20mA    | 3.2  | 4.4  | --   | mW    |
| Radiant Power             | Φe     | If=100mA   | --   | 17   | --   | mW    |
| Radiant Intensity         | Ie     | If=20mA    | --   | 20   | --   | mW/sr |
| Radiant Intensity         | Ie     | If=100mA   | --   | 76   | --   | mW/sr |
| Peak Wavelength           | λp     | If=20mA    | 1250 | 1300 | 1350 | nm    |
| Spectral Bandwidth at 50% | Δλ0.5  | If=20mA    | --   | 70   | --   | nm    |
| Viewing Angle             | φ      | If=20mA    | --   | 20   | --   | deg   |
| Switching Time            | tr, tf | If=20mA    | --   | 10   | --   | ns    |







**Remarks concerning optical radiation safety\***

Up to Maximum Forward current, at continuous operation, this LED may be classified as LED product Class 1 , according to standard IEC 60825-1:A2. Class 1 products are safe to eyes and skin under reasonably predictable conditions. This implicates a direct observation of the light beam by means of optical instruments.

\*Note: Safety classification of an optical component mainly depends on the intended application and the way the component is being used. Furthermore, all statements made to classification are based on calculations and are only valid for this LED "as it is", and at continuous operation. Using pulsed current or altering the light beam with additional optics may lead to different safety classifications. Therefore these remarks should be taken as recommendation and guideline only.

