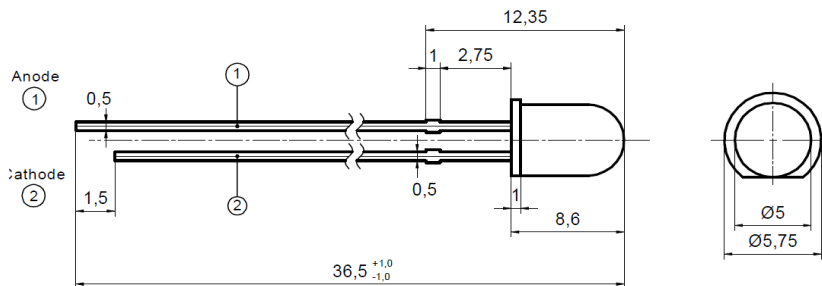


Peak Emission Wavelength: 1650nm



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 | -- | 0.7 | 0.95 | V |
| Forward Voltage | Vf | If=100mA | -- | 0.8 | 1 | V |
| Reverse Voltage | Vr | Ir=10uA | 5 | -- | -- | V |
| Radiant Power | Φe | If=20mA | 1.1 | 1.5 | -- | mW |
| Radiant Power | Φe | If=100mA | 3.4 | 5 | -- | mW |
| Radiant Intensity | Ie | If=20mA | -- | 5.3 | -- | mW/sr |
| Radiant Intensity | Ie | If=100mA | -- | 25 | -- | mW/sr |
| Peak Wavelength | λp | If=20mA | 1610 | 1650 | 1690 | nm |
| Spectral Bandwidth at 50% | Δλ0.5 | If=20mA | -- | 100 | -- | nm |
| Viewing Angle | φ | If=20mA | -- | 20 | -- | deg |
| Switching Time | tr, tf | If=20mA | -- | 25, 45 | -- | ns |

Spectral Response

