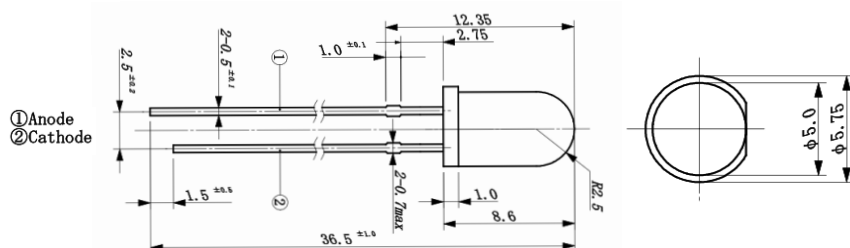


## Peak Emission Wavelength: 1650nm



### 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)

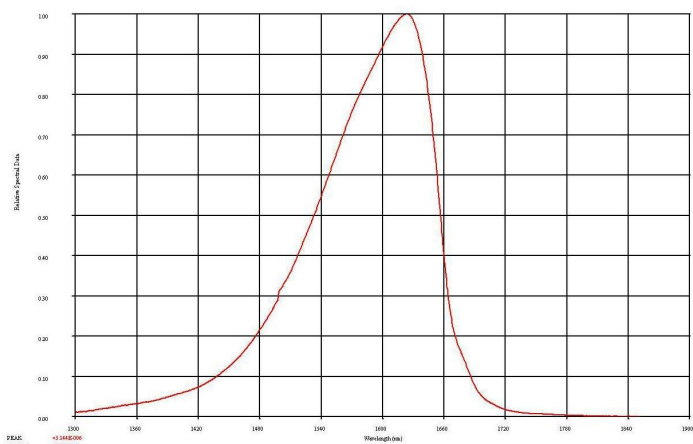


| ITEMS                       | TEST CONDITIONS       | SYMBOL | RATINGS     | UNIT |
|-----------------------------|-----------------------|--------|-------------|------|
| Forward DC Current          |                       | If     | 100         | mA   |
| Peak Forward Current        | (tp ≤ 50us, tp/T=1/2) | Ifp    | 1           | A    |
| Power Dissipation           |                       | Pd     | 100         | mW   |
| Operating Temperature Range |                       | Top    | -40 to +85  | °C   |
| Storage Temperature Range   |                       | Tstg   | -55 to +100 | °C   |
| Lead Soldering Temperature  | t<5s, 3mm from case   | Tslg   | 260         | °C   |

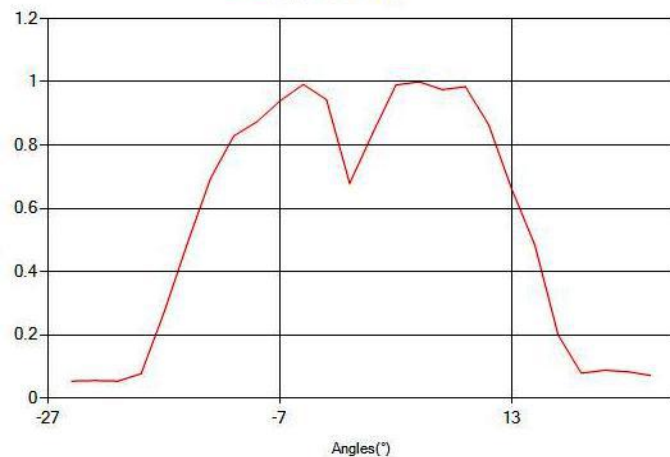
## Electrical & Optical Characteristics (Ta = 25°C)

| ITEMS                     | SYMBOL | CONDITIONS | MIN | TYP   | MAX | UNIT |
|---------------------------|--------|------------|-----|-------|-----|------|
| Forward Voltage           | Vf     | If=50mA    | --  | 0.97  | --  | V    |
| Reverse Voltage           | Vr     | Ir=5uA     | --  | 5.0   | --  | V    |
| Radiant Power             | Φe     | If=50mA    | --  | 5.6   | --  | mW   |
| Peak Wavelength           | λp     | If=50mA    | --  | 1650  | --  | nm   |
| Spectral Bandwidth at 50% | Δλ0.5  | If=50mA    | --  | 124   | --  | nm   |
| Viewing Angle             | φ      | If=50mA    | --  | 30    | --  | deg  |
| Switching Time            | tr, tf | If=100mA   | --  | 19,53 | --  | ns   |

Spectral Plot



Radiation Distribution



Radiation Pattern

