

Peak Emission Wavelength: 1200nm



Description

- Size 1206: 3.2 (L) x 1.6 (W) x 1.2 (H) mm
- Circuit substrate: glass laminated epoxy
- Devices are RoHS conform
- Lead free solderable, soldering pads: gold plated
- Marking at anode
- High radiation intensity types

Absolute Maximum Ratings (Ta=25°C)



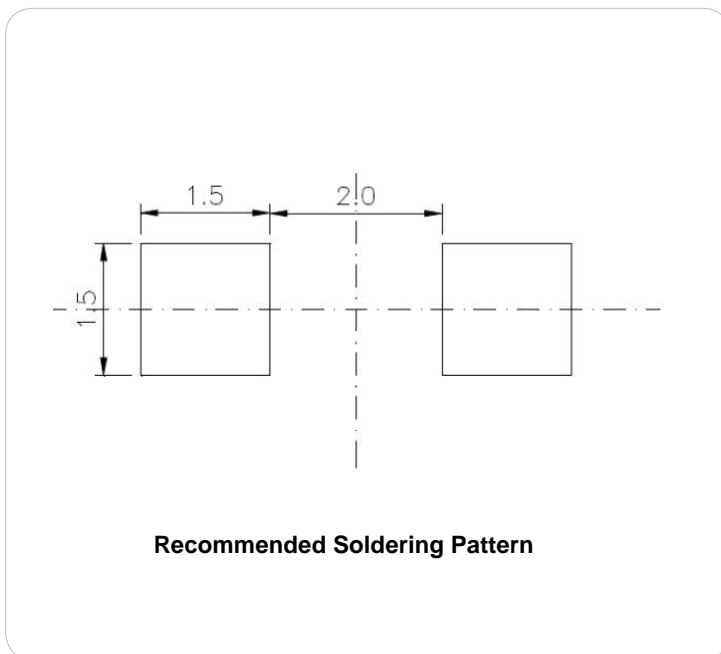
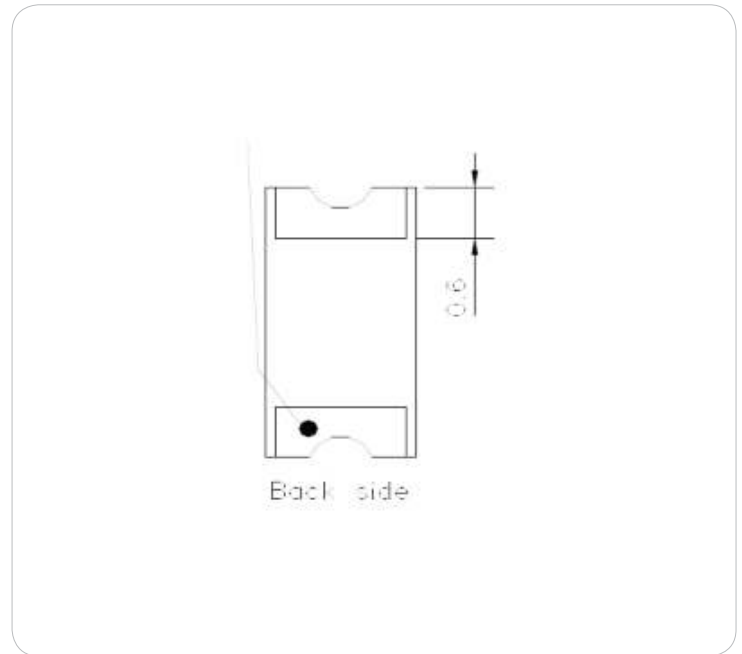
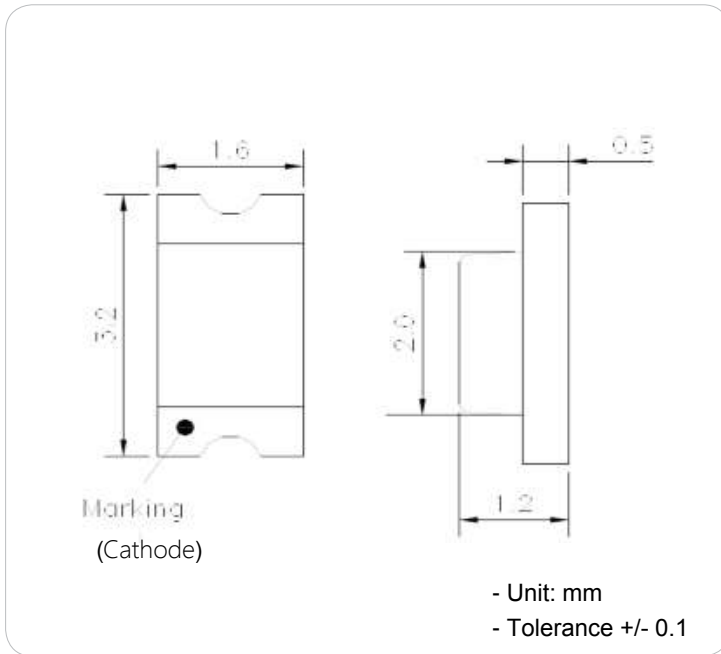
| ITEMS | SYMBOL | RATINGS | UNIT |
|------------------------|--------|------------|------|
| Forward DC Current | If | 50 | mA |
| Peak Forward Current * | Ifp | 100 | mA |
| Reverse Voltage | Vr | 5 | V |
| Reverse Current | Ir | 100 | uA |
| Operating Temperature | Top | -40 to +85 | °C |
| Storage Temperature | Tst | -55 to +85 | °C |
| Thermal Resistance | RthJA | 450 | K/W |

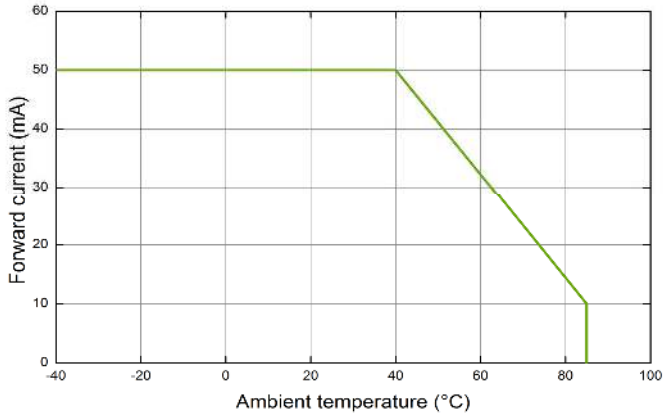
* tp ≤ 100 us, T=1ms

Electrical & Optical Characteristics (Ta = 25°C)

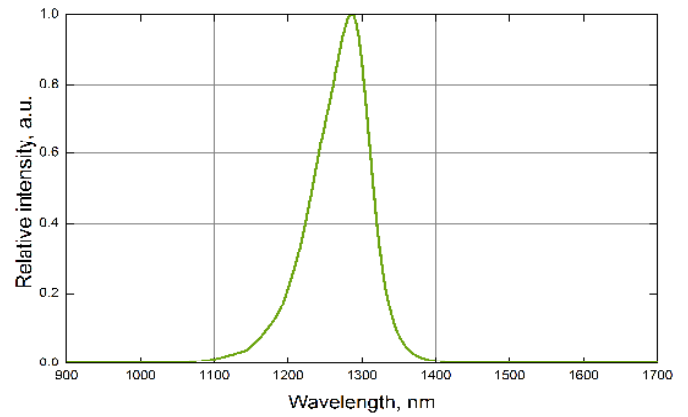
| ITEMS | SYMBOL | CONDITION | MIN | TYP | MAX | UNIT |
|--------------------|--------|-----------|-----|------|-----|------|
| Forward Voltage | Vf | If=50mA | -- | 1.1 | -- | V |
| Peak Wavelength | λp | If=50mA | -- | 1300 | -- | nm |
| Radiant Power | Φe | If=50mA | -- | 11 | -- | mW |
| Spectral Bandwidth | Δλ0.5 | If=50mA | -- | 78 | -- | nm |
| Viewing Angle | φ | If=50mA | -- | 40 | -- | deg |

Package Dimensions

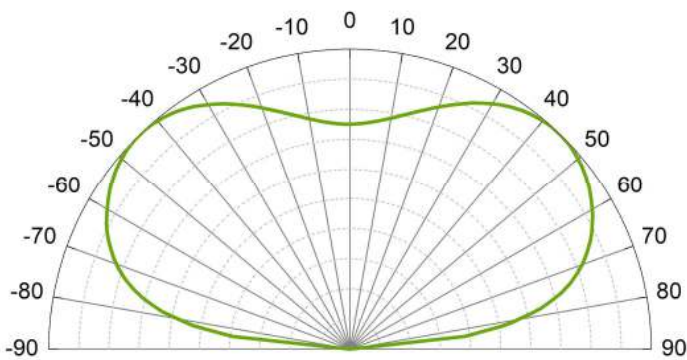




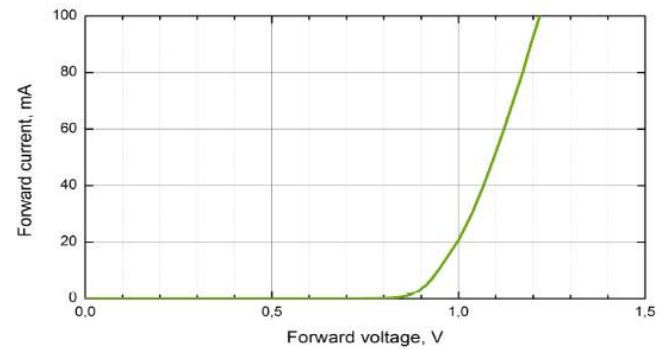
Max. forward current vs. ambient temperature



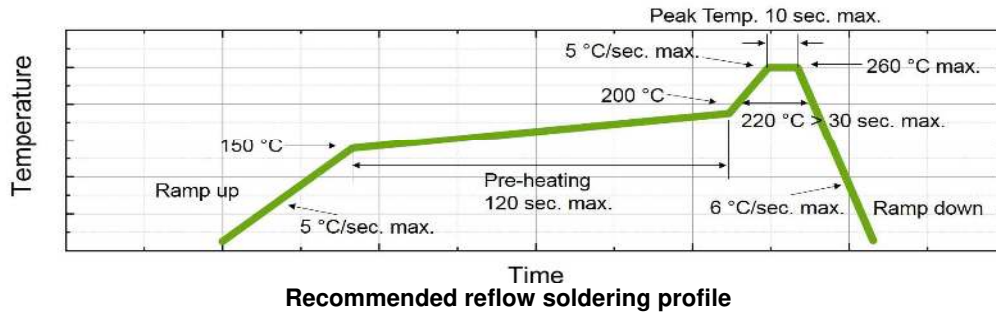
Typical spectrum at 50 mA



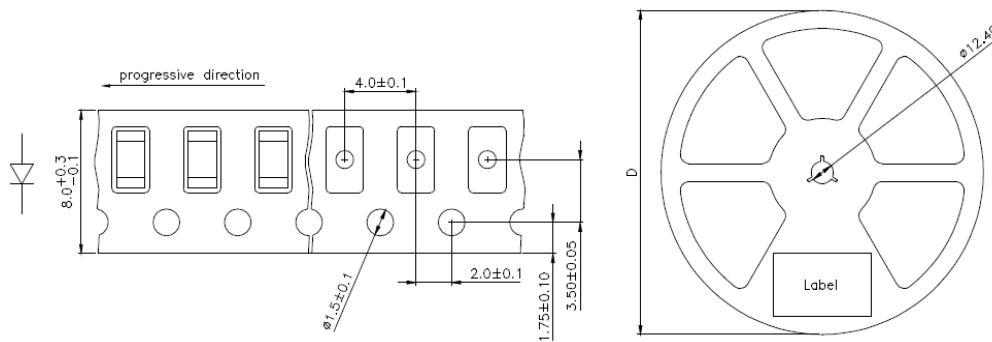
Radiation pattern



Forward current vs. forward voltage



Measured according to CIE 127. All SMD LEDs are 100% measured and selected on full automated equipment with an accuracy of $\pm 11\%$.



| D | Parts / reel |
|--------|--------------|
| 180 mm | 3000 |
| 330 mm | 12000 |

Tape and reel packing

Packing: The reel is seaLED in special plastic bag with integrate ESD protection (MIL - STD 81705) including a silica dry-pack