

L1050-35 __ __ High Power InGaAsP NIR LED

L1050-35 __ __ is an InGaAsP LED mounted on a metal stem and covered with epoxy resin or glass lens can.

On forward bias it emits a spectral band of radiation, which peaks at 1050nm.

◆ Absolute Maximum Ratings

| Item | Symbol | Maximum Rated Value | Unit | Ambient Temperature |
|-----------------------|------------------|---------------------|------|----------------------|
| Power Dissipation | P _D | 130 | mW | T _a =25°C |
| Forward Current | I _F | 100 | mA | T _a =25°C |
| Pulse Forward Current | I _{FP} | 1000 | mA | T _a =25°C |
| Reverse Voltage | V _R | 5 | V | T _a =25°C |
| Operating Temperature | T _{OPR} | -20 ~ +90 | °C | |
| Storage Temperature | T _{STG} | -30 ~ +100 | °C | |
| Soldering Temperature | T _{SOL} | 260 | °C | |

‡ Pulse Forward Current condition: Duty=1% and Pulse Width=1us.

‡ Soldering condition: Soldering condition must be completed within 3 seconds at 260°C

◆ Electro-Optical Characteristics [T_a=25°C]

| Item | Symbol | Condition | Minimum | Typical | Maximum | Unit |
|-----------------|----------------|----------------------|---------|---------|---------|------|
| Forward Voltage | V _F | I _F =50mA | | 1.20 | 1.40 | V |
| Reverse Current | I _R | V _R =5V | | | 10 | uA |
| Peak Wavelength | λ _P | I _F =50mA | 1000 | 1050 | 1100 | nm |
| Half Width | Δλ | I _F =50mA | | 100 | | nm |
| Rise Time | t _r | I _F =50mA | | 10 | | ns |
| Fall Time | t _f | I _F =50mA | | 10 | | ns |

◆ Radiated Power [T_a=25°C]

| Type No. | Radiated Power at I _F =50mA unit:mW | | | Viewing Half Angle [θ 1/2] |
|-------------|--|---------|---------|----------------------------|
| | Minimum | Typical | Maximum | |
| L1050-35K00 | | 1.0 | | ±50° |
| L1050-35K42 | | 1.5 | | ±6° |
| L1050-35M00 | | 1.5 | | ±50° |
| L1050-35M32 | | 1.5 | | ±15° |
| L1050-35T52 | | 1.0 | | ±55° |

‡ Radiated Power is measured by Ando Optical Multi Meter AQ2140 & AQ2742

◆ Outer dimension (Unit: mm)

