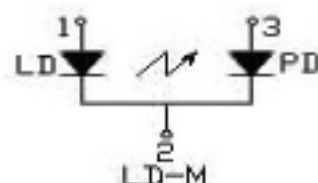


HLD40535M6J **405nm** **35mW** **60°C** **Laser Diodes** **AUTO** **PACKAGE****■ Specifications**

| | |
|---------------|------------------------|
| Wavelength: | 405nm |
| Light Output: | 35mW CW(pulse:50mw) |
| Package Type: | TO-18(Φ 5.6mm) |

**■ Absolute Maximum Ratings (Tc=25°C)**

| Parameter | Symbols | Ratings | Units | |
|-----------------------|---------|-----------|-------|---|
| Optical Output | Po(CW) | 35 | mW | |
| Reverse Voltage | Laser | Vr | 2 | V |
| | PIN PD | Vr (PIN) | 30 | V |
| Operating Temperature | Top | -0 ~ +60 | °C | |
| Storage Temperature | Tstg | -40 ~ +80 | °C | |

**■ Electrical and optical Characteristics(Tc=25°C)**

| Parameter | Symbols | Conditions | Min | Typ | Max | Units |
|-------------------------------|---------------|------------|-----|-----|-----|-------|
| Threshold Current | Ith | - | - | 38 | 55 | mA |
| Operating Current | Iop | Po=35mW | - | 75 | 100 | mA |
| Operating Voltage | Vop | Po=35mW | - | 4.8 | 6.0 | Volts |
| Slope Efficiency | η | - | 0.6 | 1.0 | - | mW/mA |
| Monitor Current | Im | Po=35mW | 0.1 | 0.2 | 1.0 | mA |
| Beam Divergence (FWHM) | Parallel | Po=35mW | 6 | 9 | 14 | deg |
| | Perpendicular | Po=35mW | 16 | 20 | 24 | deg |
| Parallel Deviation Angle | Δθ | Po=35mW | -3 | - | 3 | deg |
| Perpendicular Deviation Angle | Δθ ⊥ | Po=35mW | -2 | - | 2 | deg |
| Lasing Wavelength | λp | Po=35mW | 395 | 405 | 415 | nm |

Im is sorting by custom's need

© θ || and θ ⊥ are defined as the angle within which the intensity is 50% of the peak value.