

6550-5151-DV 650nm 5 mW Laser Diodes AUTO PACKAGE

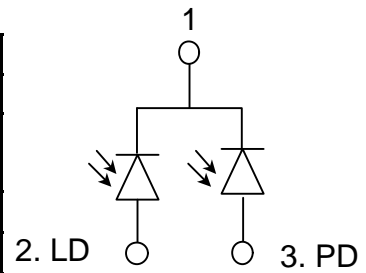
Specifications

Device Laser Diode
 Package Type TO-18(5.6mm)



Absolute Maximum Ratings(Tc=25)

| Characteristics | Symbols | Ratings | Units |
|-----------------------|---------|-----------|-------|
| Optical Output | Po | 5 | mW |
| Reverse Voltage | Laser | 2 | V |
| | PIN PD | 30 | V |
| Operating Temperature | Top | -10 +70 | |
| Storage Temperature | Tstg | -40 +85 | |



Electrical and optical Characteristics(Tc=25)

| Characteristics | Symbols | Conditions | Min. | Typ. | Max. | Units |
|-------------------------------|---------------|---------------|-------------|------------|------------|-------|
| Threshold Current | Ith | - | - | 30 | 60 | mA |
| Operating Current | Iop | Po=5mW | - | 40 | 70 | mA |
| Operating Voltage | Vop | Po=5mW | - | 2.2 | 2.6 | Volts |
| Slope Efficiency | | 2mW | 0.2 | 0.4 | 0.8 | mW/mA |
| | | I(5mW)-I(3mW) | | | | |
| Monitor Current | Im | Po=5mW | 0.1 | 0.2 | 0.5 | mA |
| Beam Divergence (FWHM) | Parallel | Po=5mW | 6 | 8 | 10 | deg. |
| | Prependicular | Po=5mW | 20 | 27 | 35 | deg. |
| Parallel Deviation Angle | // | Po=5mW | -3 | - | 3 | deg. |
| Perpendicular Deviation Angle | | Po=5mW | -4 | - | 4 | deg. |
| Emission Point Accuracy | X | Po=5mW | -100 | - | 100 | um |
| | Y | Po=5mW | -100 | - | 100 | um |
| | Z | Po=5mW | -100 | - | 100 | um |
| Lasing Wavelength | | Po=5mW | 645 | 657 | 665 | nm |

Im is sorting by custom's need

// and are defined as the angle within which the intensity is 50% of the peak value.