

HL7302MG



### Description

This 730 nm, 40 mW TO packaged laser diode is a compact light source that outputs a single transverse mode and is suited for a variety of applications such as a laser module, medical, test and measurement, or sensing. It is packaged in a standard Ø5.6 mm TO can package and has an A pin configuration. This laser diode is compatible with our line of laser diode and TEC controllers as well as our selection of collimation solutions and TO can laser diode mounts.

### Specifications

Absolute Maximum Ratings <sup>a</sup>	
Specification	Maximum
Optical Output Power, CW	50 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Temperature	-10 °C to 60 °C
Storage Temperature	-40 °C to 85 °C



a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.

HL7302MG Specifications <sup>a</sup>				
	Symbol	Min	Typical	Max
Center Wavelength @ P <sub>op</sub> <sup>b</sup>	λ <sub>o</sub>	720 nm	730 nm	740 nm
Optical Output Power, CW	P <sub>op</sub>	-	40 mW	50 mW
Threshold Current	I <sub>TH</sub>	-	30 mA	60 mA
Operating Current, CW @ P <sub>op</sub> <sup>b</sup>	I <sub>op</sub>	-	75 mA	100 mA
Operating Voltage @ P <sub>op</sub> <sup>b</sup>	V <sub>op</sub>	-	2.5 V	-
Slope Efficiency	η	0.7 mW/mA	0.9 mW/mA	1.4 mW/mA
Beam Divergence (FWHM) @ P <sub>op</sub> <sup>b</sup>	Parallel	θ <sub>//</sub>	7°	9°
	Perpendicular	θ <sub>⊥</sub>	14°	18°
Monitor Current @ P <sub>op</sub> <sup>b</sup>	I <sub>PD</sub>	0.15 mA	0.3 mA	0.6 mA

a. T<sub>CASE</sub> = 25 °C if not specified.

b. P<sub>op</sub> = 40 mW

## Drawing

