

Opnext 642nm / 150mW Laser Diode

HL6385DG Series

opnext 



World's First Laser With High Output Power and Single Longitudinal Mode

- ▶ Visible light sources for miniature display
- ▶ Low aspect ratio
- ▶ $\Phi 5.6\text{mm}$ Package

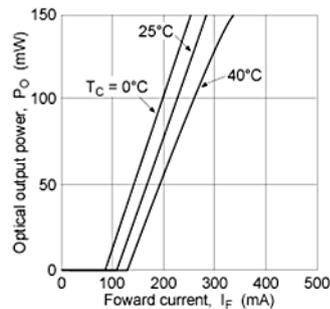
High Output Power and Single Longitudinal Mode Laser Diode

HL6385DG Series

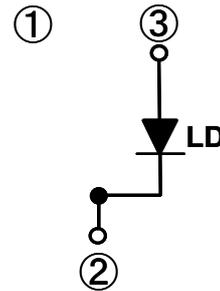
Features and Advantages

Features	Advantages
High output power (150mW @ 40°C)	Improved picture brightness
Visible single mode lasing (642nm wavelength Typ. @ 150mW)	High quality picture display

Optical Output Power vs. Forward Current



Internal Circuit



Applications



Navigation Display

Datasheets

English: ODE-208-075
Japanese: ODJ-208-074

Package



Main Characteristics (Tc = 25°C)

Item	Symbol	Unit	HL6385DG			Test Conditions
			Min.	Typ.	Max.	
Threshold Current	I _{th}	mA	-	110	140	-
Operating current	I _{op}	mA	-	280	350	P _o =150mW
Operating Voltage	V _{op}	V	-	2.6	3	P _o =150mW
Beam Divergence (parallel)	θ _{//}	°	6	9	13	P _o =150mW
Beam Divergence (perpendicular)	θ _⊥	°	13	17	22	P _o =150mW
Lasing Wavelength	λ _p	nm	635	642	647	P _o =150mW

Note: The above specifications are subject to change without notice.

How to Buy / Contact Info

Sales Office
Opnext Japan, Inc.
Takagi Building 3F
Iwamoto-cho 1-3-9, Chiyoda-ku
Tokyo 101-0032, Japan
T | +81.3.3865.5591
F | +81.3.3865.5597

Headquarters:
Opnext, Inc.
1 Christopher Way
Eatontown, NJ 07724
T | 732.544.3400
F | 732.544.3540

North America Sales Office
940 Auburn Court
Fremont, CA 94538
T | 510.580.8828
F | 510.580.8819

Opnext Germany, GmbH
European Sales and Operations
Dornacher Str 3
D-85622 Feldkirchen Bei
München, Germany
T | +49.89.99180.215
F | +49.89.99180.352

Shanghai Representative Office
Westgate Tower, Room 2008B
1038 Nanjing Xi Lu
Jingan District, Shanghai, PRC
T | +86.21.6218.3676
F | +86.21.6218.3669