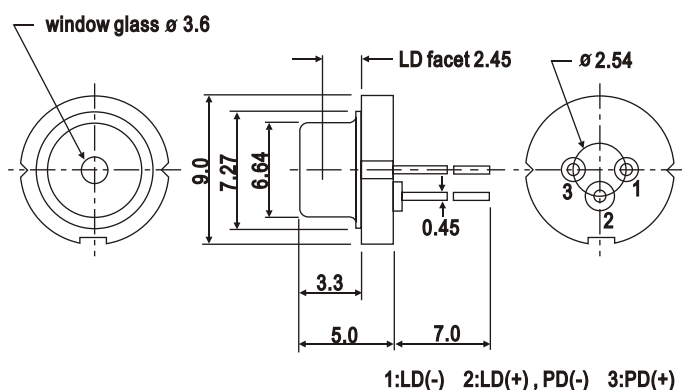




# HLDH-808-B-1000-01

## сверхмощный лазерный диод

### Package Dimensions



### Absolute Maximum Rating

Parameter	Symbol	Max. Rating	Units
Optical Output	Po	1100	mW
Reverse Voltage Laser Pin Pd	VR	2	V
	VR pin	15	V
Operating Temperature	Topr	-10°~ +30°	°C
Storage Temperature	Tstg	-40°~ +85°	°C

### Electric-optical characteristics

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Threshold Current	Ith	--	--	0.3	0.5	A
Operating Current	Lop	Po=1W	--	1.4	2.0	A
Operating Voltage	Vop	Po=1W	--	2.1	3.0	V
Differential Efficiency	$\eta$	Po=1W	0.5	0.9	--	W/A
Monitor Current	Lm	Po=1W, VRD=10V	0.3	1.5	6.0	mA
Beam Divergence (FWHM) Parallel Perpendicular	$\theta_{//}$	Po=1W	4	9	17	Degree
	$\theta_{\perp}$	Po=1W	20	30	40	Degree
Perpendicular Deviation Angle	$\Delta\theta_{\perp}$	Po=1W	--	--	$\pm 3$	Degree
Emission Point Accuracy	$\Delta x$	Po=1W	--	--	$\pm 50$	um
	$\Delta y$	Po=1W	--	--	$\pm 50$	um
Lasing Wavelength	$\lambda$	Po=1W	790	--	840	nm

\*1.  $\theta_{//}$  and  $\theta_{\perp}$  are defined as the angle within which the intensity is 50% of the peak value.