

INVISIBLE LASER PRODUCTS

RoHS
Conformity

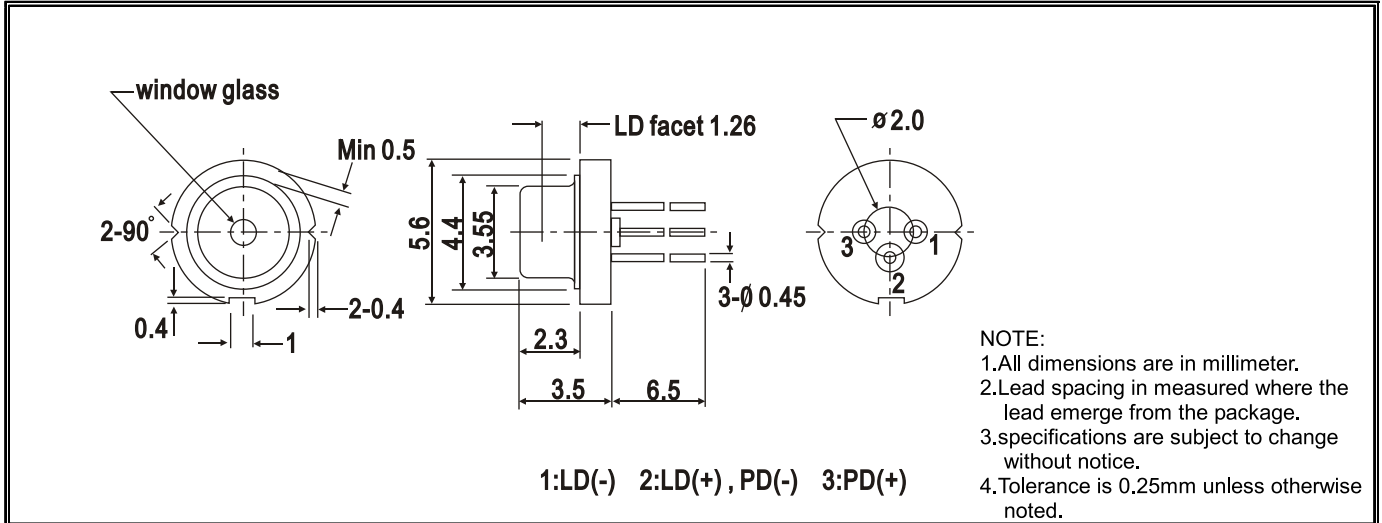
(HI POWER LASER DIODE)

REV:E
DATE:2006/2/10

ESD PRODUCT !

☰ DEVICE NO:HLDH-808-B-200-01 (808nm, 200mW, TO-18)

☰ PACKAGE DIMENSIONS:



☰ ABSOLUTE MAXIMUM RATINGS:

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Optical Output	Po	200	mW
Reverse Voltage	Laser	VR	2 V
	PIN PD	VR(PIN)	30 V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +85	°C
Lead Soldering Temperature (1.6mm from case Bottom 260 °C for 5 seconds)			

☰ ELECTRIC-OPTICAL CHARACTERISTICS:

TA=25°C

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
Threshold Current	Ith	Po=200mW	---	20	35	mA
Operating Current	Iop	Po=200mW	---	225	240	mA
Operating Voltage	Vop	Po=200mW	---	1.7	1.9	V
Slope Efficiency	η	Po=200mW	0.8	1.0		mW/mA
Beam Divergence (FWHM)	Parallel	Po=150-200mW	---	11	17	Degree
	Perpendicular	Po=200mW	---	42	48	Degree
Emission point accuracy	ΔxΔyΔz	Po=200mW	-80	0	+80	um
Lasing Wavelength	λ	Po=200mW	805	808	811	nm

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

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.