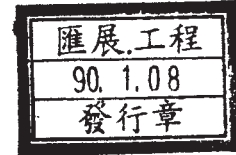


# VISIBLE LASER PRODUCTS

(LASER DIODE)

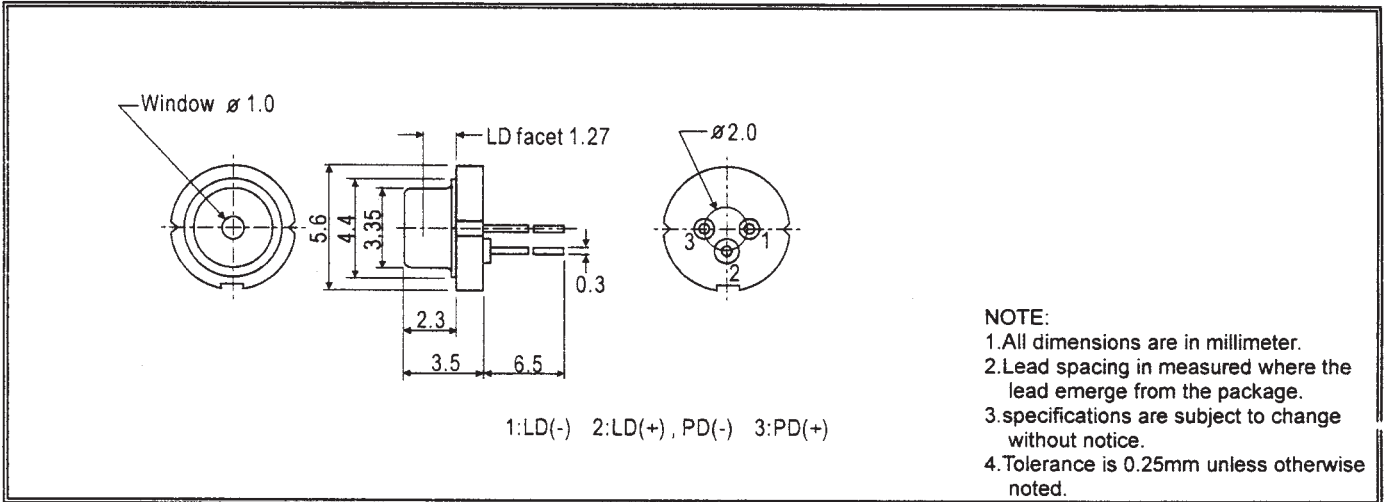
REV:B  
DATE:2001/1/8

**ESD PRODUCT !**



DEVICE NO:HLDP-650-A-5-01 (650nm, 5mW, TO-18 no glass)

PACKAGE DIMENSIONS:



ABSOLUTE MAXIMUM RATINGS:

TA=25°C

PARAMETER	SYMBOL	MAX. RATING	UNIT
Optical Output	Po	7	mW
Reverse Voltage	Laser	2	V
	PIN PD	30	V
Operating Temperature	Topr	0 ~ +40	°C
Storage Temperature	Tstg	-15 ~ +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	---	---	20	25	mA
Operating Current	Iop	Po=5mW	---	25	40	mA
Operating Voltage	Vop	---	2.1	2.3	2.6	V
Slope Efficiency	$\eta$	3-1mW / I3-I1mW	0.8	1	1.1	mW/mA
Monitor Current	Im	Po=5mW	0.1		0.7	mA
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	6.5	7.5	9	Degree
	Perpendicular	$\theta_{\perp}$	32	38	42	Degree
Lasing Wavelength	$\lambda$	Po=5mW	645	650	660	nm

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

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