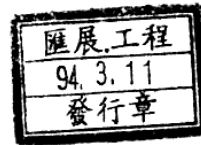


VISIBLE LASER PRODUCTS

(LASER DIODE)

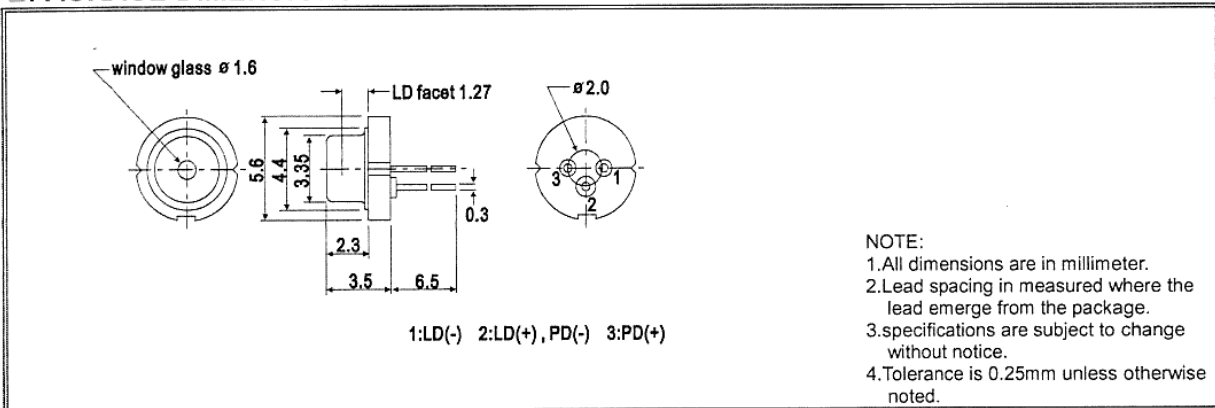


REV:A
DATE:2005/3/11

ESD PRODUCT !

DEVICE NO:HLDP-650-A-5-02 (650nm, 5mW, TO-18)

PACKAGE DIMENSIONS:



ABSOLUTE MAXIMUM RATINGS:

TA=25

PARAMETER	SYMBOL	MAX. RATING	UNIT
Optical Output	Po	7	mW
Reverse Voltage	Laser	2	V
	PIN PD	30	V
Operating Temperature	Topr	-10 ~ +50	°C
Storage Temperature	Tstg	-40 ~ +75	°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	35	mA	
Operating Voltage	Vop	Po=5mW		2.2	2.5	V	
Slope Efficiency	η	Po=5mW	0.4	0.7	1.1	mW/mA	
Monitor Current	Im	Po=5mW,VRD=5V	0.05	0.2	0.4	mA	
Beam Divergence (FWHM)	Parallel	$\theta_{//}$	Po=5mW	6	8	11	Degree
	Perpendicular	θ_{\perp}	Po=5mW	24	28	38	Degree
Parallel Deviation Angle	$\Delta\theta_{//}$	Po=5mW	---	---	±3	Degree	
Perpendicular Deviation Angle	$\Delta\theta_{\perp}$	Po=5mW	---	---	±3	Degree	
Emission Point Accuracy	$\Delta x \Delta y \Delta z$	---	---	---	±80	um	
Lasing Wavelength	λ	Po=5mW	645	655	660	nm	

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

HUEY JANN ELECTRONICS INDUSTRY CO., LTD.

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