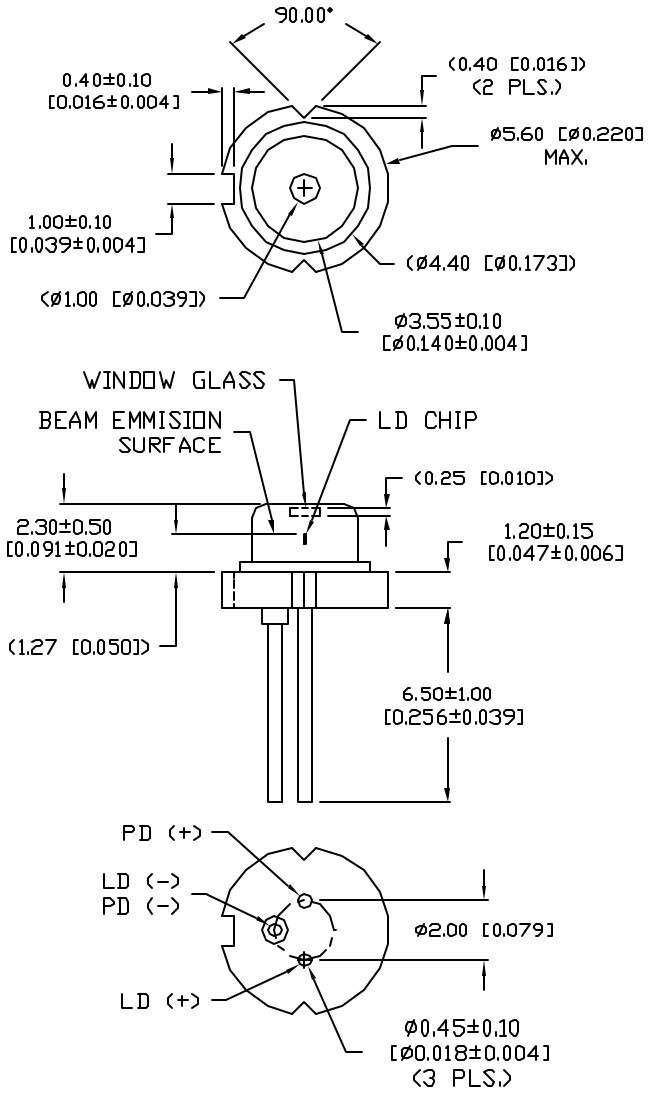
UNCONTROLLED DOCUMENT

PART NUMBER

OED-LDH65510E

REV.



ELECTRO-OPTICAL CHARACTERISTICS (Tc=25°C)

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
LASING WAVELENGTH	λ	645	653	660	Po=10mW	nm
THRESHOLD CURRENT	Ith		30	45	CW	mA
OPERATING CURRENT	Iop		45	60	Po=10mW	mA
OPERATING VOLTAGE	Vop		2.3	2.6	Po=10mW	V
MONITORING CURRENT	Im	0.1	0.15	0.7	Po=10mW	mA
BEAM DIVERGENCE:	θ//	6	7.5	9	Po=10mW	deg.
	θ⊥	32	38	42	FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Po	10	mW
LD REVERSE VOLTAGE	$V_{R(LD)}$	2	V
PD REVERSE VOLTAGE	$V_{R(PD)}$	10	V
OPERATING TEMP.	Top	-10 TO +40	°C
STORAGE TEMP.	Tstg	-40 TO +85	°C

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER
	OED-LDH65510E

655nm LASER DIODE, TO-18 (ø5.6mm) PACKAGE, 10mW OUTPUT.

CONFIDENTIAL INFORMATION

THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

RELIABILITY NOTE

OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

LUMEX

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 1.9.02
CT			PAGE: 1 OF 1
			SCALE: N/A