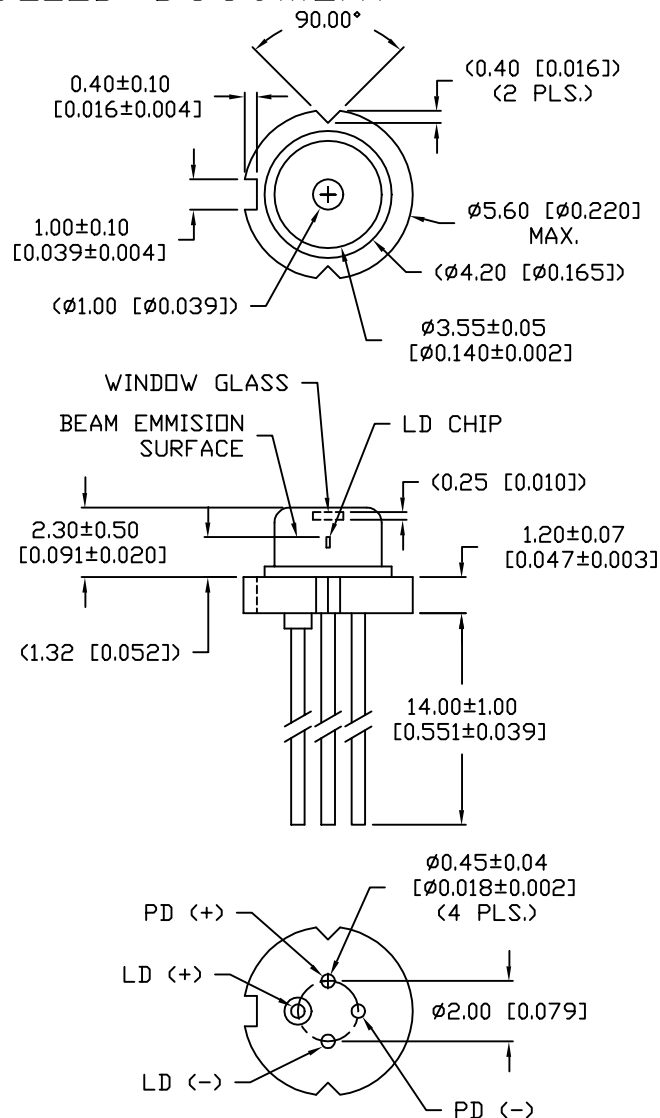


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PART NUMBER		REV.
OED-LDC15001EA		
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE

ELECTRO-OPTICAL CHARACTERISTICS (Tc=25°C), Po=5mW

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
LASING WAVELENGTH	λ	1520	1550	1580	CW	nm
SPECTRAL WIDTH	$\Delta\lambda$		2	5	CW	nm
FORWARD VOLTAGE	Vf		1.2	1.5	CW	V
THRESHOLD CURRENT	Ith		8	20		mA
PD MONITOR CURRENT	Pm	100		600	CW	μ A
PD DARK CURRENT	I(DARK)			0.1	Vr(PD)=5V	μ A
PD CAPACITANCE	Ct		6	15	Vr(PD)=5V, f=1MHz	pF
RISE TIME	Tr			0.5	CW, Ibias=Ith,	ns
FALL TIME	Tf			0.5	10-90%	ns
SLOPE EFFICIENCY		0.15	0.25			mW/mA
BEAM DIVERGENCE:	$\theta//$		20		CW,	deg.
	$\theta\perp$		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Po	5(CW)	mW
LD REVERSE VOLTAGE	Vr(LD)	2	V
PD REVERSE VOLTAGE	Vr(PD)	10	V
PD FORWARD CURRENT	If(PD)	1.0	mA
OPERATING TEMP.	Top	- 40 TO + 85	°C
STORAGE TEMP.	Tstg	- 40 TO + 85	°C

WARNING
INVISIBLE LASER RADIATION,
AVOID DIRECT EXPOSURE TO BEAM.

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010''$)

REV.	PART NUMBER OED—LDC15001EA	<u>CONFIDENTIAL INFORMATION</u> 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. <u>RELIABILITY NOTE</u> 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 INCORPORATED		290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 PHONE: 1-847-359-2790 WEB: HTTP://WWW.LUMEX.COM
1550nm LASER DIODE, TO-18 (ø5.6mm) PACKAGE, 5mW OUTPUT.			DRAWN BY: DU	CHECKED BY:	APPROVED BY: