

UNCONTROLLED DOCUMENT

PART NUMBER

REV.

OED-LDC15001EB

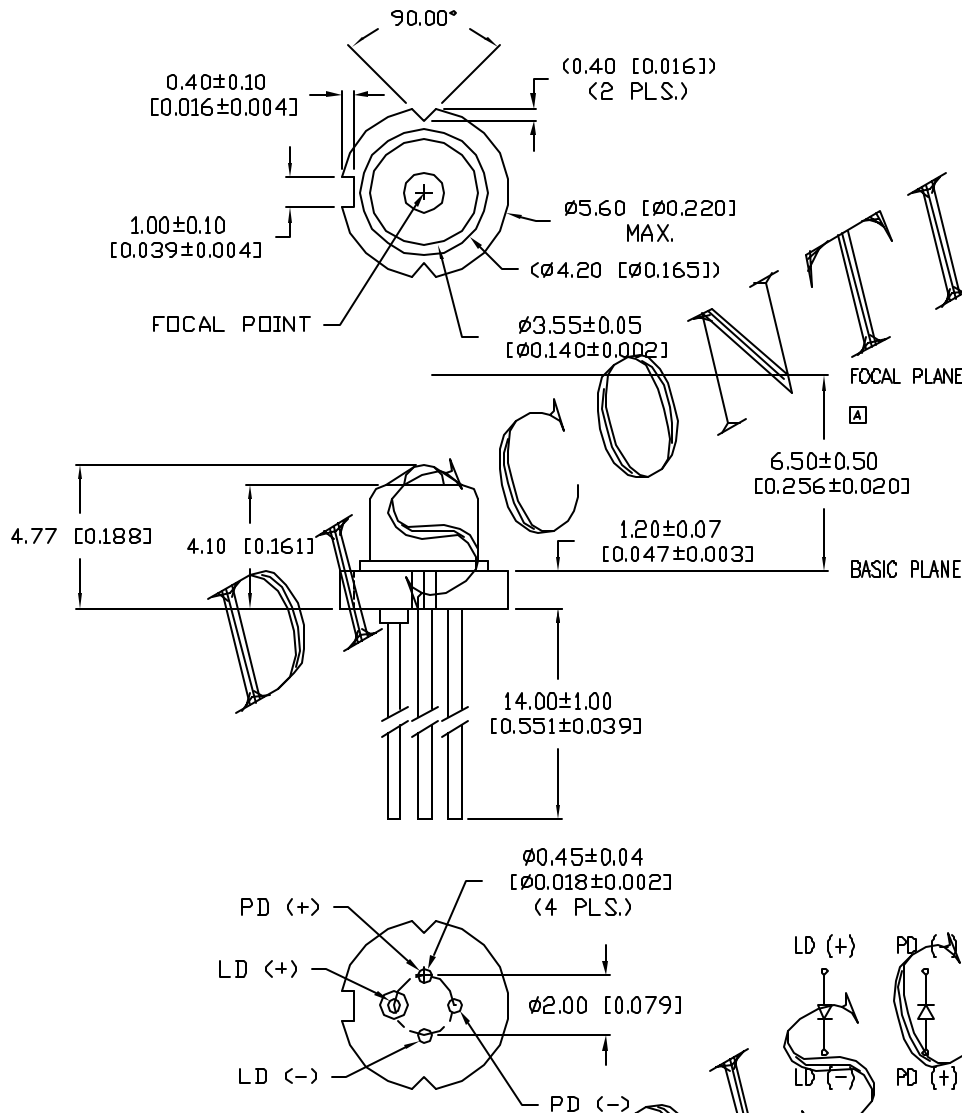
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REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

E.C.N. #10542.

8-6-99



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

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
PEAK 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, 10-90%	ns
FALL TIME	Tf			0.5	10-90%	ns
SLOPE EFFICIENCY		0.12	0.15			mW/mA
BEAM DIVERGENCE:	θ		20	40	CW, FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Pa	5(CW)	mW
LD REVERSE VOLTAGE	Vr(Ld)	2	V
PD REVERSE VOLTAGE	Vr(PD)	10	V
PD FORWARD CURRENT	Ir(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 ±0.25mm (±0.010")

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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
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: CHECKED BY: APPROVED BY: DATE: 5-18-99

PAGE: 1 OF 1

SCALE: N/A

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