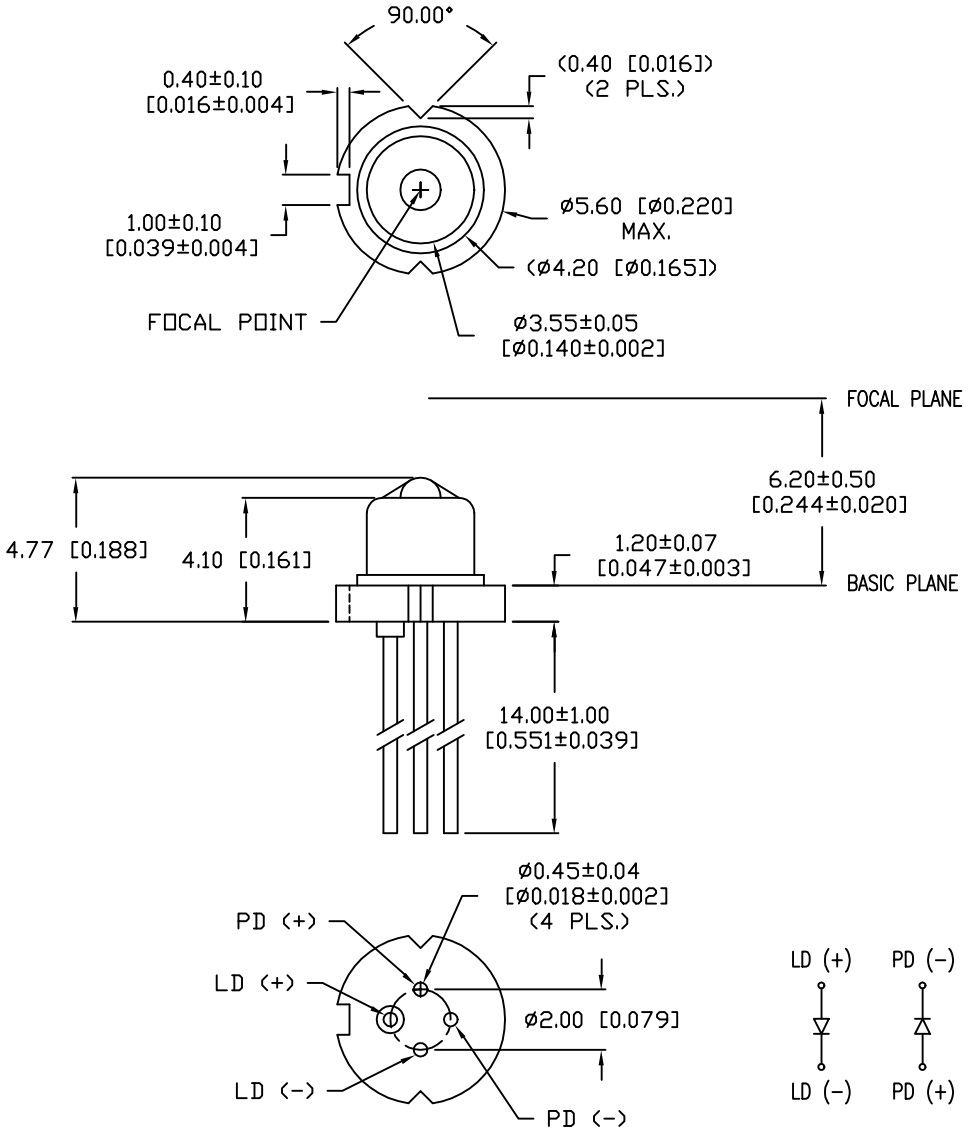
UNCONTROLLED DOCUMENT

PART NUMBER	REV.
OED-LDC13001EB	

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	1280	1310	1340	CW	nm
SPECTRAL WIDTH	Δλ		2	5	CW	nm
FORWARD VOLTAGE	Vf		1.2	1.5	CW	V
THRESHOLD CURRENT	Ith		12	20		mA
PD MONITOR CURRENT	Pm	100		1000	CW	µA
PD DARK CURRENT	$I_{(DARK)}$			0.1	$V_{R(PD)}$=5V	µA
PD CAPACITANCE	Ct		6	15	$V_{R(PD)}$=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:	θ//		20		CW,	deg.
	θ⊥		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Po	10(CW)	mW
LD REVERSE VOLTAGE	$V_{R(LD)}$	2	V
PD REVERSE VOLTAGE	$V_{R(PD)}$	15	V
PD FORWARD CURRENT	$I_{F(PD)}$	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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1310nm LASER DIODE, TO-18 (ø5.6mm) PACKAGE,
10mW OUTPUT.

CONFIDENTIAL INFORMATION
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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.

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