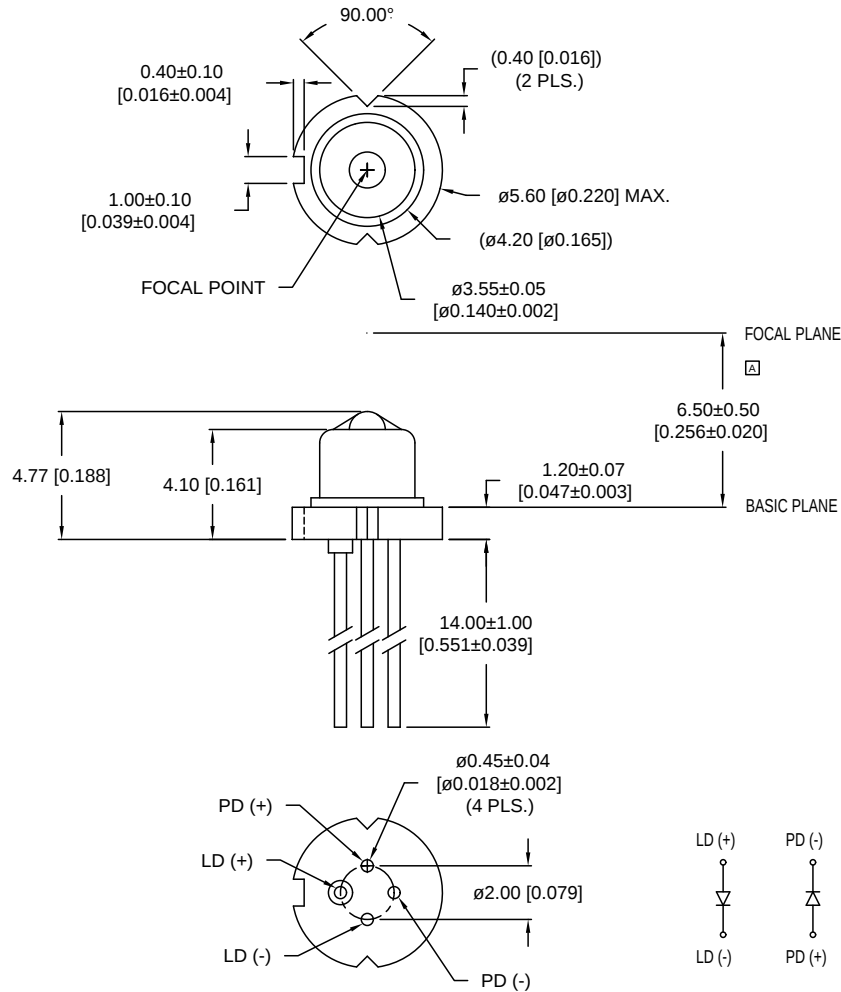


UNCONTROLLED DOCUMENT



PART NUMBER

OED-LDC15001EB

REV.

A

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
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	μA
PD DARK CURRENT	I(DARK)			0.1	V R(PD)=5V	μA
PD CAPACITANCE	Ct		6	15	R(PD)=5Vf=1MHz	pF
RISE TIME	Tr			0.5	CW, Ibias=Ith,	ns
FALL TIME	Tf			0.5	10-90%	ns
SLOPE EFFICIENCY		0.12	0.15			mW/mA
BEAM DIVERGENCE:	θ		20		CW,	deg.
	θ_L		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (Tc=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	Po	5(CW)	mW
LD REVERSE VOLTAGE	V R(LD)	2	V
PD REVERSE VOLTAGE	V R(PD)	10	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")

REV.

A

PART NUMBER

OED-LDC15001EB

1550nm LASER DIODE, TO-18 (ø5.6mm) PACKAGE,
5mW 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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