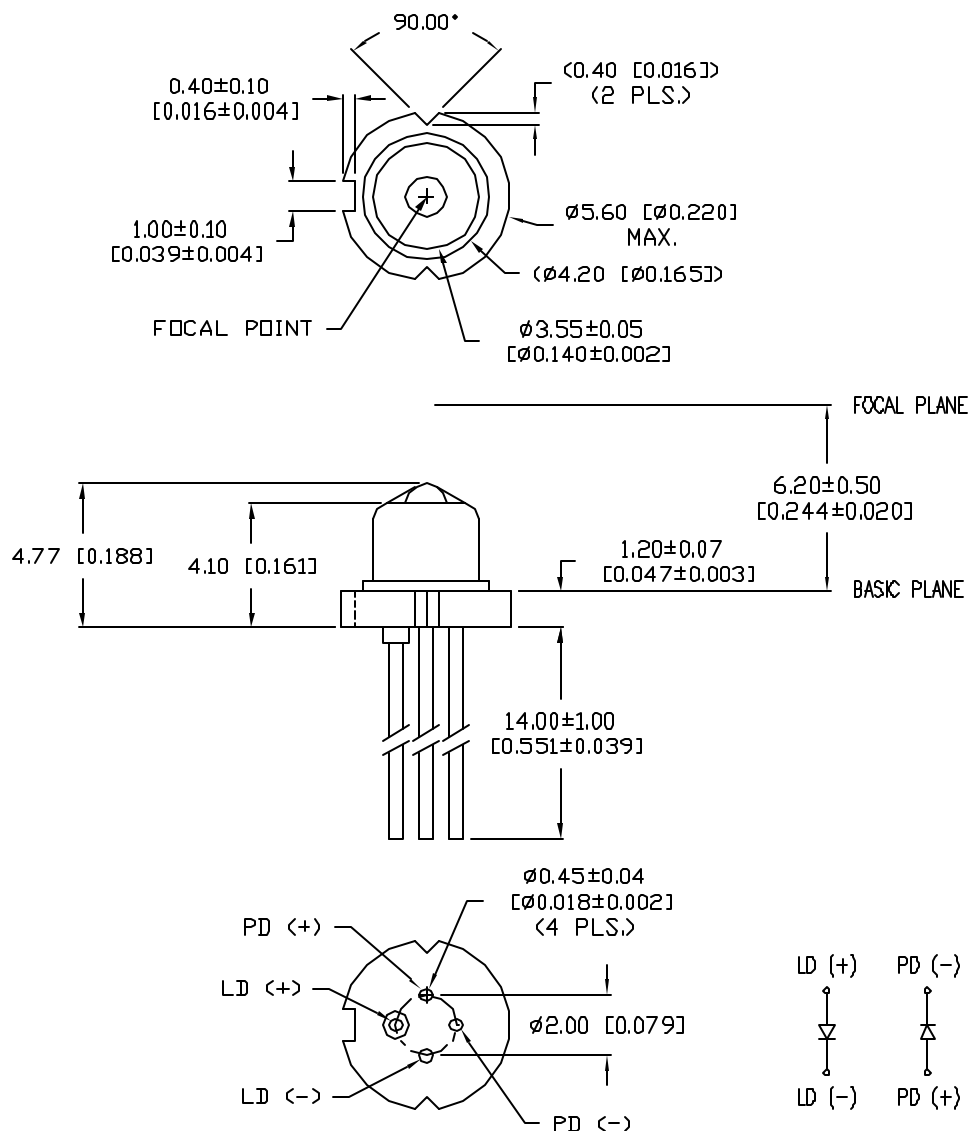


UNCONTROLLED DOCUMENT



PART NUMBER		REV.
OED-LDC13001EB		
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE

ELECTRO-OPTICAL CHARACTERISTICS (T_c=25°C), P_o=5mW

PARAMETER	SYMBOL	MIN	TYP	MAX	TEST COND	UNITS
LASING WAVELENGTH	λ	1280	1310	1340	CW	nm
SPECTRAL WIDTH	$\Delta\lambda$		2	5	CW	nm
FORWARD VOLTAGE	V _f		1.2	1.5	CW	V
THRESHOLD CURRENT	I _{th}		12	20		mA
PD MONITOR CURRENT	P _m	100		1000	CW	μA
PD DARK CURRENT	I(DARK)			0.1	V _R (PD)=-5V	μA
PD CAPACITANCE	C _t		6	15	V _R (PD)=-5V, f=1MHz	pF
RISE TIME	T _r			0.5	CW, I _{bias} =I _{th}	ns
FALL TIME	T _f			0.5	10-90%	ns
SLOPE EFFICIENCY		0.15	0.25			mW/mA
BEAM DIVERGENCE:	θ		20		CW,	deg.
	θ_L		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (T_c=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	P _a	10(CW)	mW
LD REVERSE VOLTAGE	V _R (L _d)	2	V
PD REVERSE VOLTAGE	V _R (PD)	15	V
PD FORWARD CURRENT	I _F (PD)	1.0	mA
OPERATING TEMP.	T _{op}	-40 TO +85	°C
STORAGE TEMP.	T _{stg}	-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.

UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

REV. PART NUMBER
OED-LDC13001EB

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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