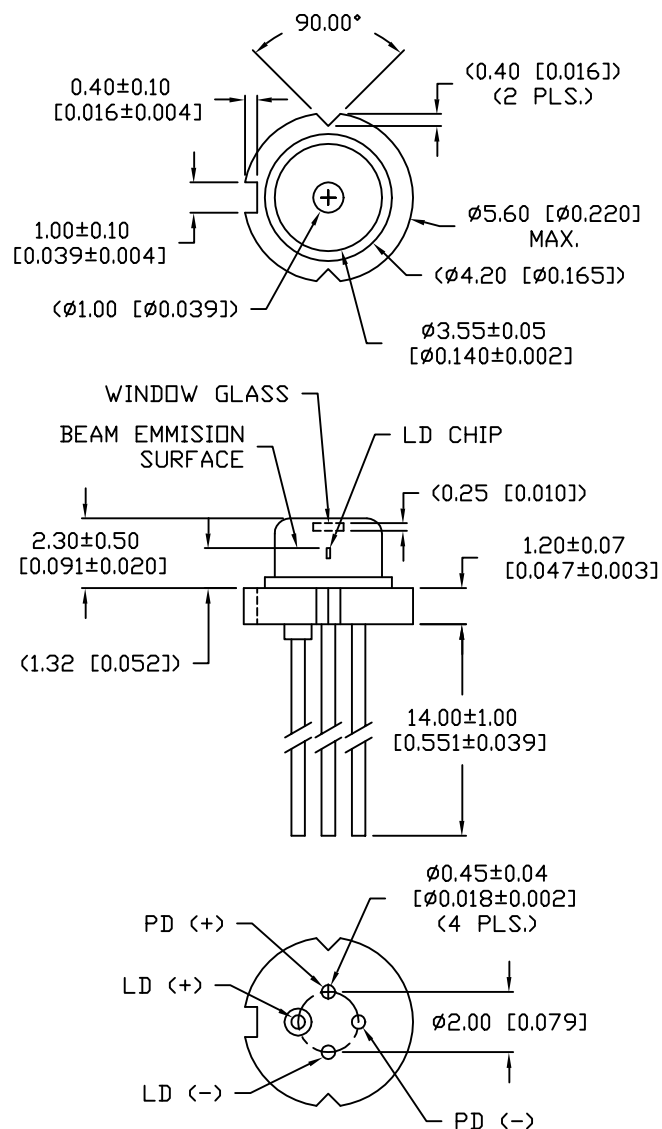


UNCONTROLLED DOCUMENT



PART NUMBER

REV.

OED-LDC13001EA

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

ELECTRO-OPTICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$), $P_o=5\text{mW}$

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		0.25	0.35			mW/mA
BEAM DIVERGENCE:	$\theta//$		20		CW,	deg.
	$\theta\perp$		40		FWHM	deg.

ABSOLUTE MAXIMUM RATINGS (T_c=25°C)

PARAMETER	SYMBOL	MAX	UNITS
OPTICAL POWER	P _o	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.	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.

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

REV.

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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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PAGE: 1 OF 1

SCALE: N/A

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